

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072219\  
 Data File : VU033365.D  
 Acq On : 22 Jul 2019 21:26  
 Operator : JC/SP  
 Sample : VSTDIC015  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Quant Time: Jul 23 02:26:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 23 01:45:04 2019  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 5.72 | 96   | 33333    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |         |      |
|----------------------------|-------|-----|----------|------|---------|------|
| 57) 4-Bromofluorobenzene   | 10.29 | 95  | 13497    | 1.13 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 113.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 11.85 | 152 | 14609    | 1.30 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 130.00% |      |

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## Target Compounds

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 198979   | 13.379  | ug/l   | 100    |
| 3) Chloromethane              | 1.32 | 50   | 217275   | 12.370  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.39 | 62   | 242772   | 14.203  | ug/l   | 99     |
| 5) Bromomethane               | 1.62 | 94   | 150858   | 17.391  | ug/l   | 100    |
| 6) Chloroethane               | 1.69 | 64   | 193010   | 19.225  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.87 | 101  | 336480   | 16.740  | ug/l   | 100    |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101  | 169817   | 17.061  | ug/l   | 98     |
| 9) 1,1-Dichloroethene         | 2.27 | 96   | 168764   | 17.053  | ug/l   | 98     |
| 10) Iodomethane               | 2.40 | 142  | 244921   | 21.643  | ug/l   | 99     |
| 11) Allyl Chloride            | 2.57 | 41   | 280627   | 13.571  | ug/l   | 99     |
| 12) Acrylonitrile             | 2.93 | 53   | 93352m   | 31.566  | ug/l   |        |
| 13) Acetone                   | 2.33 | 43   | 182985   | 68.735  | ug/l   | 100    |
| 14) Carbon Disulfide          | 2.46 | 76   | 633643   | 16.737  | ug/l   | 100    |
| 15) Methylene Chloride        | 2.68 | 84   | 203099   | 16.161  | ug/l   | 99     |
| 16) trans-1,2-Dichloroethene  | 2.96 | 96   | 197335   | 17.740  | ug/l   | 98     |
| 17) 1,1-Dichloroethane        | 3.42 | 63   | 268248   | 12.372  | ug/l   | 100    |
| 18) 2-Butanone                | 4.27 | 43   | 210768   | 63.584  | ug/l   | 98     |
| 19) Cyclohexane               | 4.96 | 56   | 229000m  | 13.872  | ug/l   |        |
| 20) Methylcyclohexane         | 6.39 | 83   | 246902   | 18.045  | ug/l   | 98     |
| 21) 2,2-Dichloropropane       | 4.20 | 77   | 215440   | 13.403  | ug/l   | 100    |
| 22) cis-1,2-Dichloroethene    | 4.20 | 96   | 159788   | 14.147  | ug/l   | 99     |
| 23) Diethyl Ether             | 2.09 | 59   | 149154   | 15.991  | ug/l   | 98     |
| 24) tert-Butyl Alcohol        | 2.87 | 59   | 181828   | 179.416 | ug/l   | 100    |
| 25) Methyl tert-Butyl Ether   | 2.98 | 73   | 500181   | 17.410  | ug/l   | 100    |
| 26) Bromochloromethane        | 4.52 | 128  | 69029    | 14.389  | ug/l   | 97     |
| 27) Chloroform                | 4.65 | 83   | 285077   | 13.924  | ug/l   | 99     |
| 28) 1,1,1-Trichloroethane     | 4.89 | 97   | 243570   | 14.071  | ug/l   | 100    |
| 29) 1,1-Dichloropropene       | 5.11 | 75   | 213426   | 15.354  | ug/l   | 99     |
| 30) Carbon Tetrachloride      | 5.11 | 117  | 217658   | 14.688  | ug/l   | 99     |
| 31) Isopropyl Ether           | 3.56 | 45   | 367316   | 11.584  | ug/l   | 98     |
| 32) Ethyl-t-butyl ether       | 4.05 | 59   | 371123   | 14.142  | ug/l   | 100    |
| 33) Tert-Amyl methyl ether    | 5.56 | 73   | 357465   | 16.775  | ug/l   | 100    |
| 34) Propionitrile             | 4.33 | 54   | 62758    | 69.476  | ug/l # | 97     |
| 35) Benzene                   | 5.36 | 78   | 605499   | 14.267  | ug/l   | 99     |
| 36) 1,2-Dichloroethane        | 5.38 | 62   | 194700   | 13.979  | ug/l   | 99     |
| 37) Trichloroethene           | 6.16 | 130  | 160029   | 15.173  | ug/l   | 97     |
| 38) 1,2-Dichloropropane       | 6.41 | 63   | 165813   | 13.864  | ug/l   | 98     |
| 39) Methacrylonitrile         | 4.53 | 41   | 47524    | 12.857  | ug/l   | 97     |
| 40) Methyl acrylate           | 4.41 | 55   | 83467    | 17.020  | ug/l   | 98     |
| 41) Tetrahydrofuran           | 4.64 | 42   | 50718    | 24.848  | ug/l   | 96     |
| 42) 1-Chlorobutane            | 5.04 | 56   | 287486   | 13.844  | ug/l   | 99     |

7/23/2019 8:55:14 AM

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 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

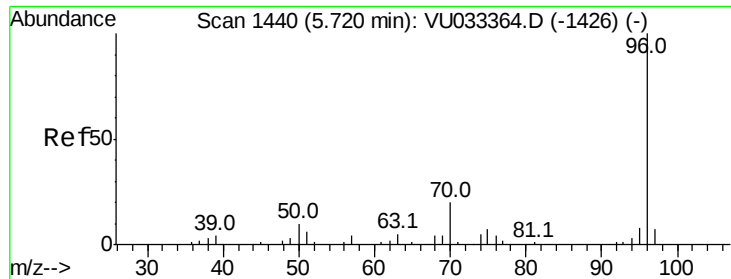
Manual Integrations  
 APPROVED

Quant Time: Jul 23 02:26:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 23 01:45:04 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 43) Dibromomethane             | 6.54  | 93   | 89401    | 14.875  | ug/l  | 97       |
| 44) Bromodichloromethane       | 6.74  | 83   | 213008   | 14.386  | ug/l  | 99       |
| 45) 4-Methyl-2-Pentanone       | 7.45  | 43   | 523915   | 74.988  | ug/l  | 99       |
| 46) t-1,4-Dichloro-2-butene    | 10.50 | 75   | 88417m   | 39.072  | ug/l  |          |
| 47) Methyl methacrylate        | 6.61  | 69   | 160563   | 34.956  | ug/l  | 99       |
| 48) Ethyl methacrylate         | 8.00  | 69   | 149939   | 18.752  | ug/l  | 100      |
| 49) Toluene                    | 7.62  | 92   | 383464   | 17.129  | ug/l  | 99       |
| 50) t-1,3-Dichloropropene      | 7.86  | 75   | 201512   | 17.178  | ug/l  | 99       |
| 51) cis-1,3-Dichloropropene    | 7.25  | 75   | 231316   | 16.323  | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane      | 8.05  | 97   | 122917   | 15.590  | ug/l  | 97       |
| 53) 1,3-Dichloropropane        | 8.22  | 76   | 211725   | 15.503  | ug/l  | 100      |
| 54) 2-Hexanone                 | 8.35  | 43   | 375826   | 79.402  | ug/l  | 99       |
| 55) Dibromochloromethane       | 8.46  | 129  | 147832   | 16.573  | ug/l  | 100      |
| 56) 1,2-Dibromoethane          | 8.57  | 107  | 115460   | 16.329  | ug/l  | 99       |
| 58) Tetrachloroethene          | 8.21  | 164  | 150086   | 14.842  | ug/l  | 97       |
| 59) Chlorobenzene              | 9.10  | 112  | 421771   | 17.685  | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 150868   | 16.326  | ug/l  | 99       |
| 61) Pentachloroethane          | 11.09 | 117  | 119032   | 17.622  | ug/l  | 100      |
| 62) Hexachloroethane           | 12.13 | 117  | 122092   | 18.500  | ug/l  | 98       |
| 63) Ethyl Benzene              | 9.23  | 91   | 743786   | 19.161  | ug/l  | 99       |
| 64) m/p-Xylenes                | 9.36  | 106  | 591663   | 40.376  | ug/l  | 99       |
| 65) o-Xylene                   | 9.76  | 106  | 279699   | 19.589  | ug/l  | 99       |
| 66) Styrene                    | 9.77  | 104  | 489862   | 20.641  | ug/l  | 100      |
| 67) Bromoform                  | 9.94  | 173  | 83323    | 16.721  | ug/l  | 99       |
| 69) Isopropylbenzene           | 10.15 | 105  | 730600   | 19.637  | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 161591   | 15.869  | ug/l  | 100      |
| 71) 1,2,3-Trichloropropane     | 10.48 | 75   | 120231m  | 16.174  | ug/l  |          |
| 72) Bromobenzene               | 10.44 | 156  | 176389   | 18.573  | ug/l  | 99       |
| 73) n-propylbenzene            | 10.57 | 120  | 211020   | 21.580  | ug/l  | 99       |
| 74) 2-Chlorotoluene            | 10.64 | 126  | 182462   | 19.665  | ug/l  | 97       |
| 75) 1,3,5-Trimethylbenzene     | 10.76 | 105  | 662827   | 20.715  | ug/l  | 99       |
| 76) 4-Chlorotoluene            | 10.76 | 126  | 191937   | 21.036  | ug/l  | 100      |
| 77) tert-Butylbenzene          | 11.08 | 119  | 613470   | 20.400  | ug/l  | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 682798   | 21.050  | ug/l  | 100      |
| 79) sec-Butylbenzene           | 11.31 | 105  | 848459   | 20.669  | ug/l  | 100      |
| 80) Nitrobenzene               | 12.85 | 77   | 29060    | 114.719 | ug/l  | 98       |
| 81) p-Isopropyltoluene         | 11.46 | 119  | 707593   | 21.802  | ug/l  | 100      |
| 82) 1,3-Dichlorobenzene        | 11.40 | 146  | 368981   | 19.411  | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene        | 11.49 | 146  | 372463   | 20.314  | ug/l  | 99       |
| 84) n-Butylbenzene             | 11.87 | 91   | 705385   | 22.455  | ug/l  | 99       |
| 85) 1,2-Dichlorobenzene        | 11.86 | 146  | 346389   | 19.121  | ug/l  | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 26832    | 18.100  | ug/l  | 97       |
| 87) 1,2,4-Trichlorobenzene     | 13.49 | 180  | 236199   | 25.142  | ug/l  | 99       |
| 88) Hexachlorobutadiene        | 13.68 | 225  | 124929   | 18.929  | ug/l  | 99       |
| 89) Naphthalene                | 13.73 | 128  | 465090   | 28.225  | ug/l  | 100      |
| 90) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 224332   | 23.471  | ug/l  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

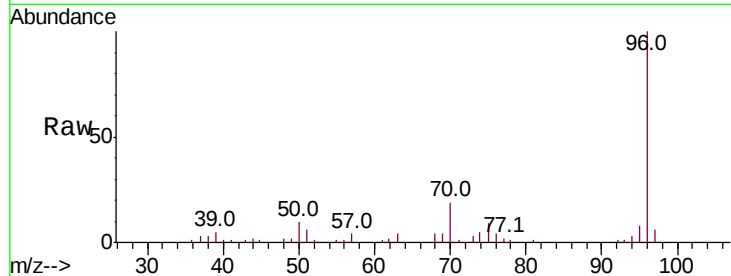
ClientSampleId :

VSTDIC015

Tot Ion: 96 Resp: 33333

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 70  | 21.1  | 16.4  | 24.6  |
| 95  | 0.0   | 6.7   | 10.1# |
| 97  | 0.0   | 0.0   | 0.0   |

Manual Integrations  
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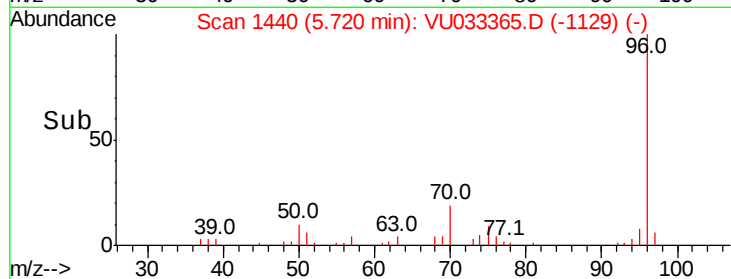
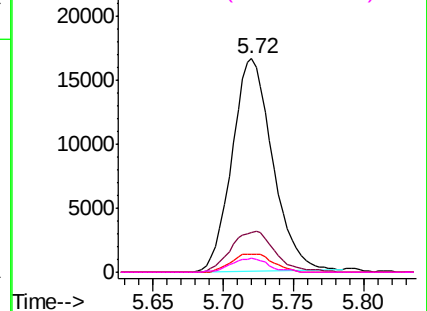
Abundance

Ion 96.00 (95.70 to 96.70): VU033364.D (-1426) (-)

Ion 70.00 (69.70 to 70.70): VU033364.D (-1426) (-)

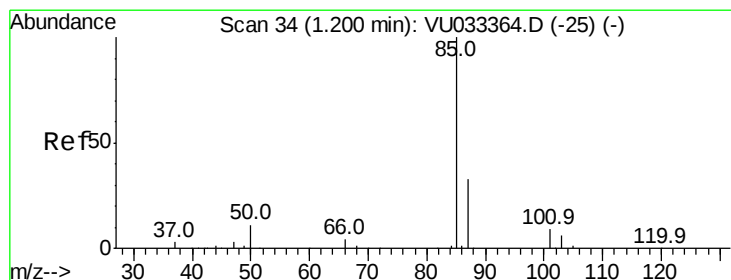
Ion 95.00 (94.70 to 95.70): VU033364.D (-1426) (-)

Ion 97.00 (96.70 to 97.70): VU033364.D (-1426) (-)



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7/23/2019 8:55:14 AM



#2

Dichlorodifluoromethane

Concen: 13.379 ug/l

RT: 1.20 min Scan# 34

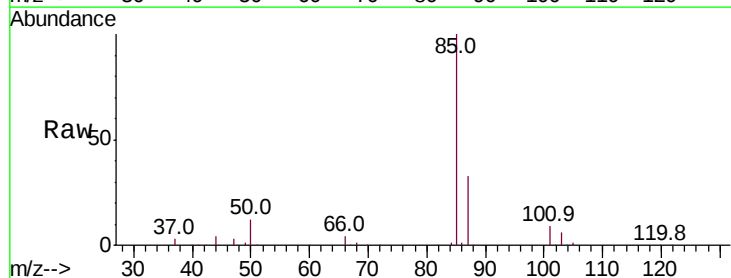
Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Tgt Ion: 85 Resp: 198979

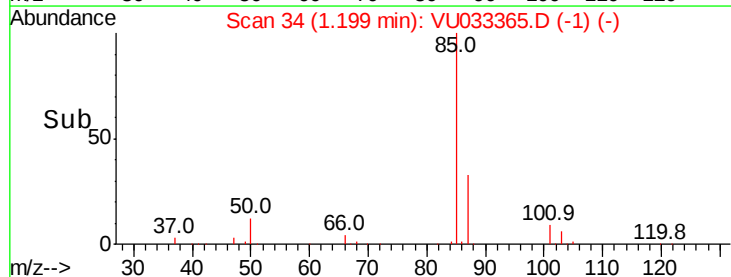
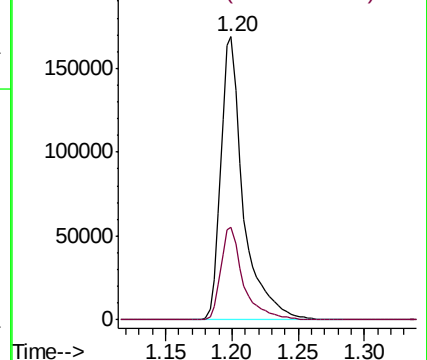
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 32.9  | 16.6  | 49.7  |

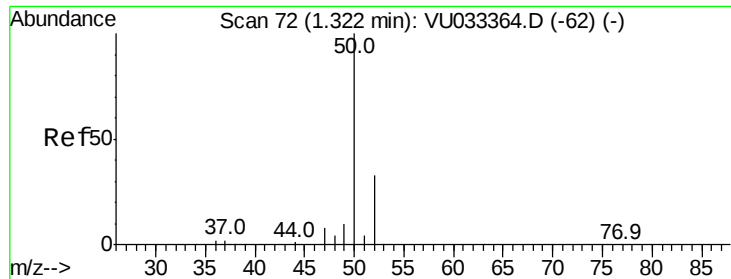


Abundance

Ion 85.00 (84.70 to 85.70): VU033364.D (-25) (-)

Ion 87.00 (86.70 to 87.70): VU033364.D (-25) (-)





#3

Chloromethane

Concen: 12.370 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

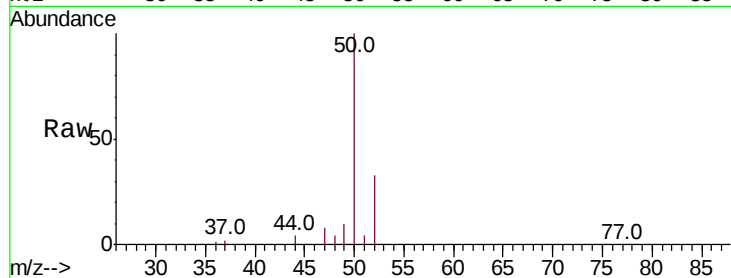
Tot Ion: 50 Resp: 217275

Ion Ratio Lower Upper

50 100

52 33.2 26.1 39.1

Manual Integrations  
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Abundance Ion 50.00 (49.70 to 50.70): VU033364.D (-62) (-)

Ion 52.00 (51.70 to 52.70): VU033364.D (-62) (-)

1.32

200000

150000

100000

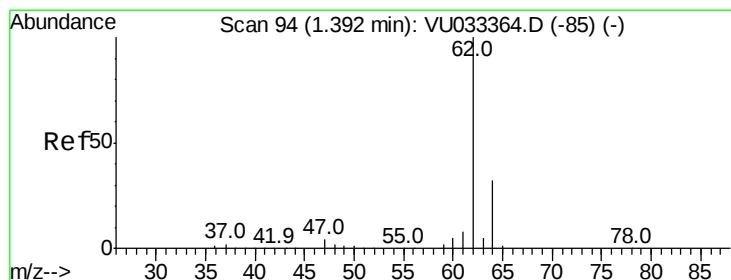
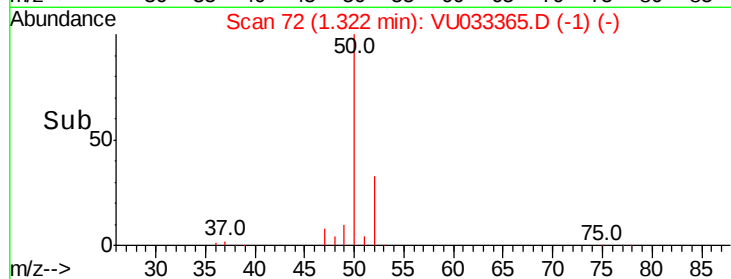
50000

0

Time-->

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7/23/2019 8:55:14 AM



#4

Vinyl Chloride

Concen: 14.203 ug/l

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033365.D

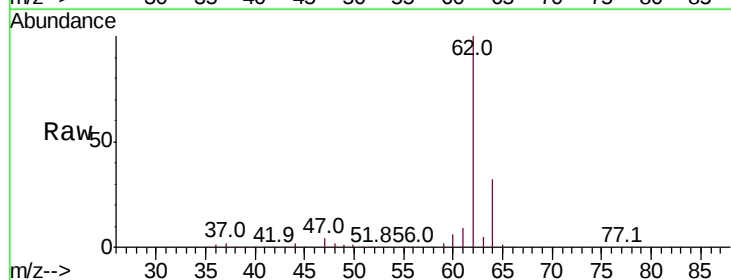
Acq: 22 Jul 2019 21:26

Tgt Ion: 62 Resp: 242772

Ion Ratio Lower Upper

62 100

64 32.4 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VU033364.D (-85) (-)

Ion 64.00 (63.70 to 64.70): VU033364.D (-85) (-)

1.39

250000

200000

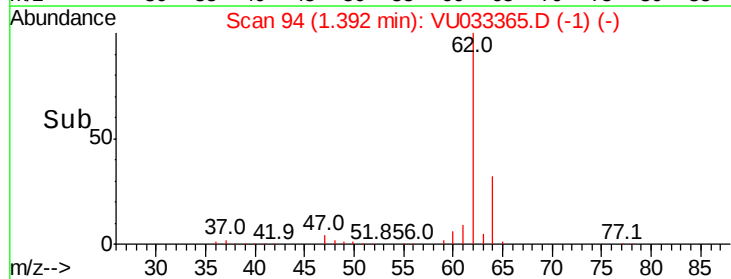
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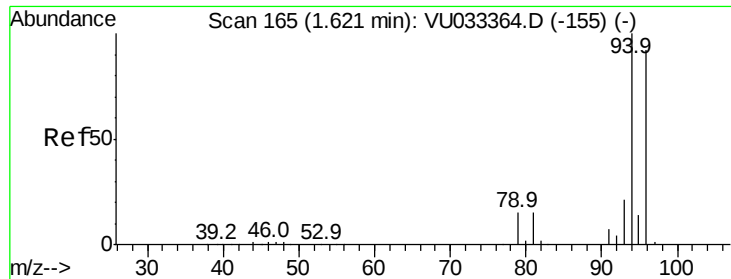
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50000

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Time-->



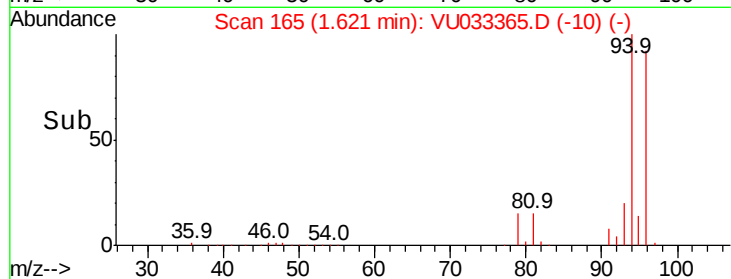
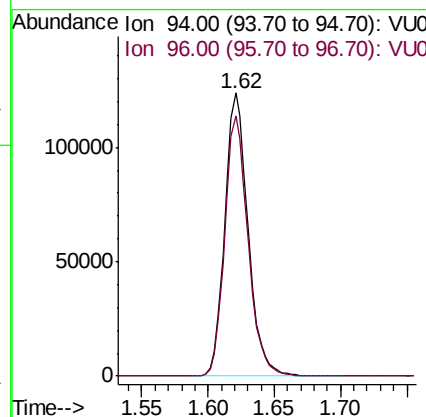
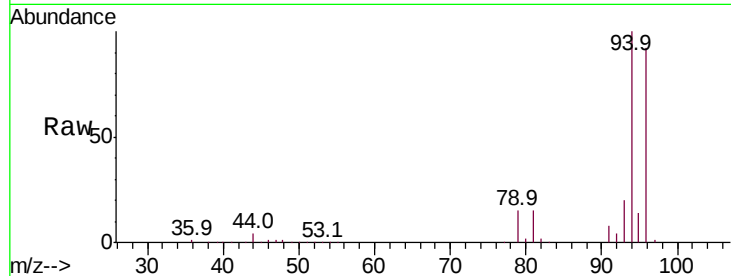


#5  
Bromomethane  
Concen: 17.391 ug/l  
RT: 1.62 min Scan# 165  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

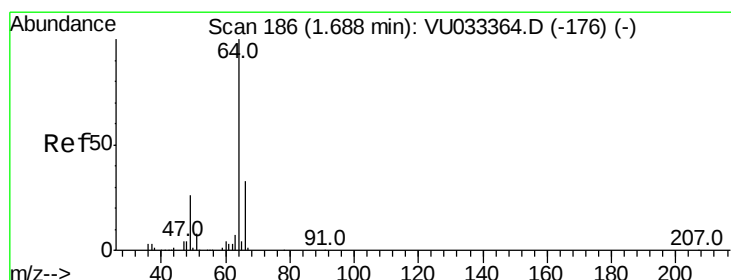
Tot Ion: 94 Resp: 150858  
Ion Ratio Lower Upper  
94 100  
96 92.0 73.2 109.8

Manual Integrations  
APPROVED



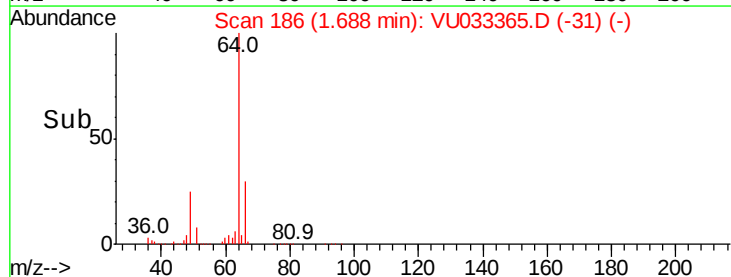
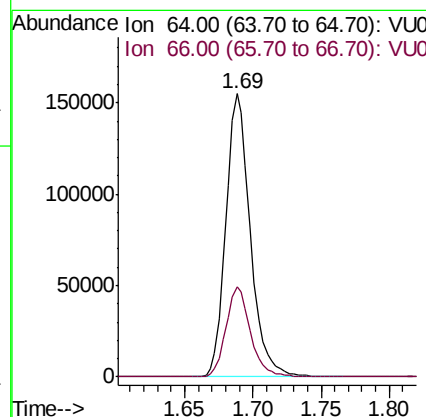
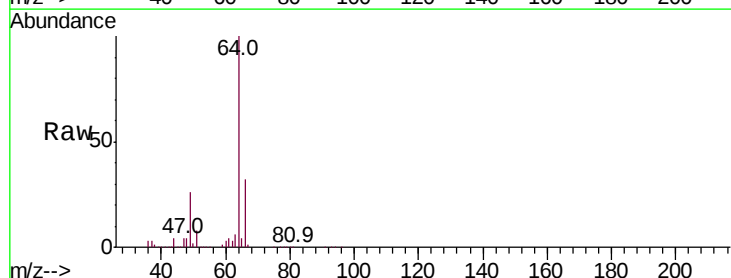
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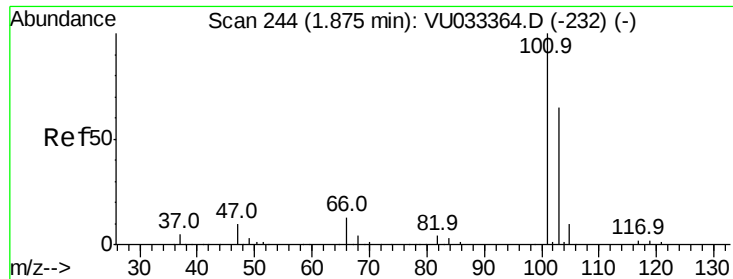
7/23/2019 8:55:14 AM



#6  
Chloroethane  
Concen: 19.225 ug/l  
RT: 1.69 min Scan# 186  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Tgt Ion: 64 Resp: 193010  
Ion Ratio Lower Upper  
64 100  
66 32.0 26.4 39.6





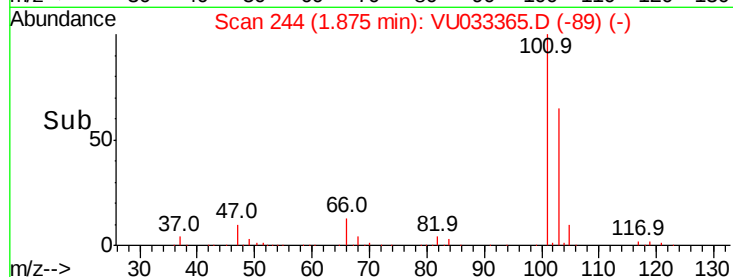
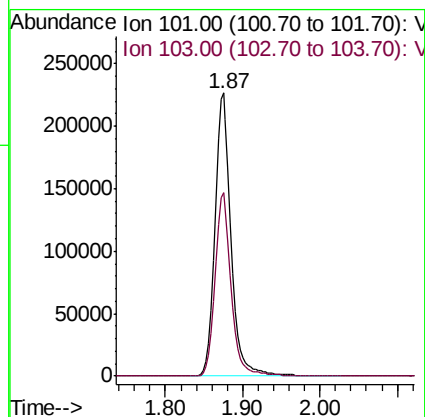
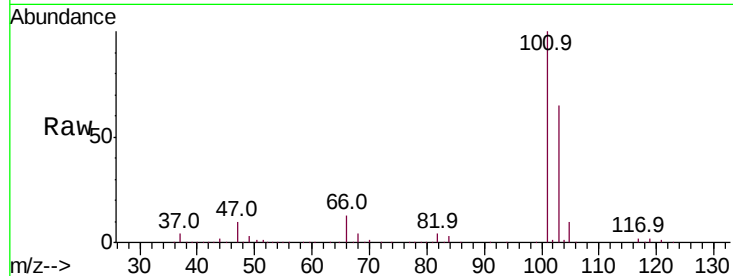
#7

Trichlorofluoromethane  
Concen: 16.740 ug/l  
RT: 1.87 min Scan# 244  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

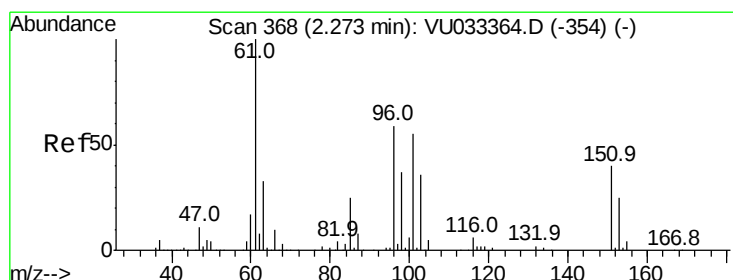
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.9  | 52.2  | 78.2  |

Manual Integrations  
APPROVED



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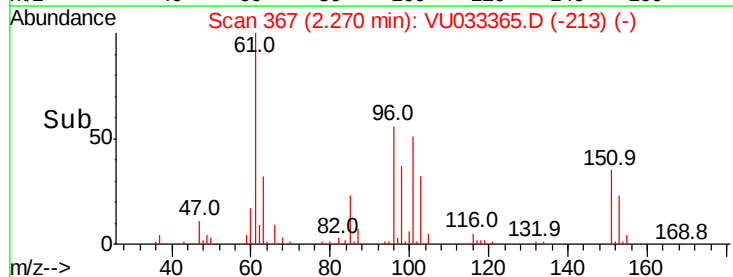
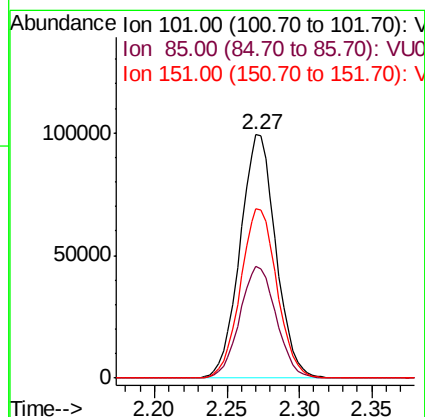
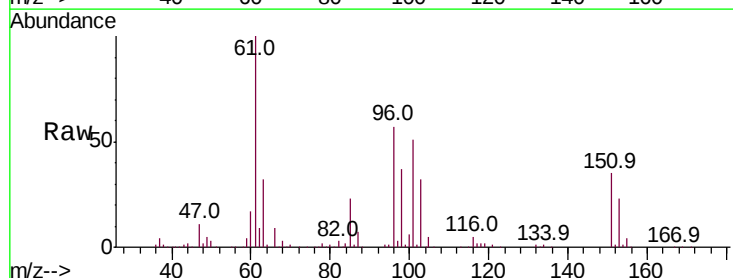
7/23/2019 8:55:14 AM

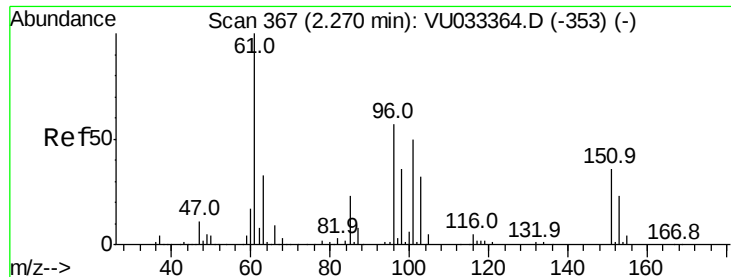


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 17.061 ug/l  
RT: 2.27 min Scan# 367  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 46.7  | 37.5  | 56.3  |
| 151     | 70.9  | 58.3  | 87.5  |





#9

1,1-Dichloroethene

Concen: 17.053 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

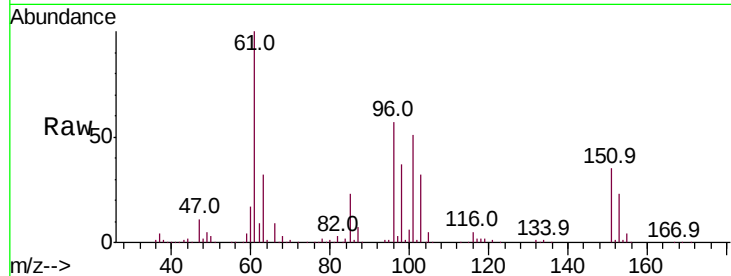
MSVOA\_U

ClientSampleId :

VSTDIC015

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 168764 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 176.9 | 0.0   | 525.6  |
| 98       | 66.2  | 0.0   | 126.4  |

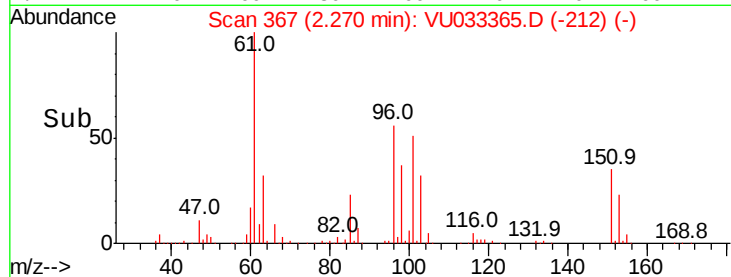
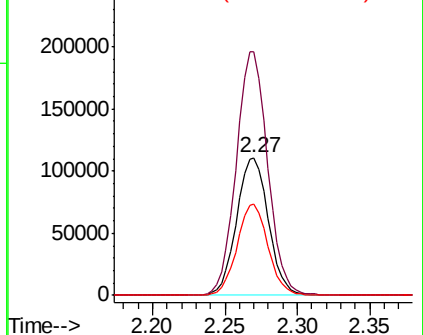
Manual Integrations  
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Abundance Ion 96.00 (95.70 to 96.70): VU033364.D (-353) (-)

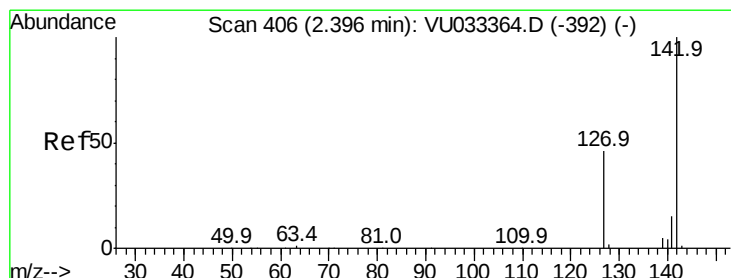
Ion 61.00 (60.70 to 61.70): VU033364.D (-353) (-)

Ion 98.00 (97.70 to 98.70): VU033364.D (-353) (-)



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7/23/2019 8:55:14 AM



#10

Iodomethane

Concen: 21.643 ug/l

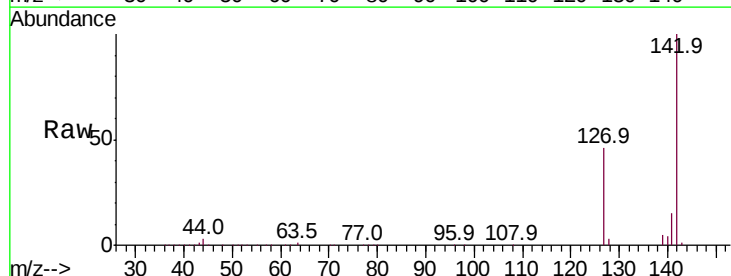
RT: 2.40 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU033365.D

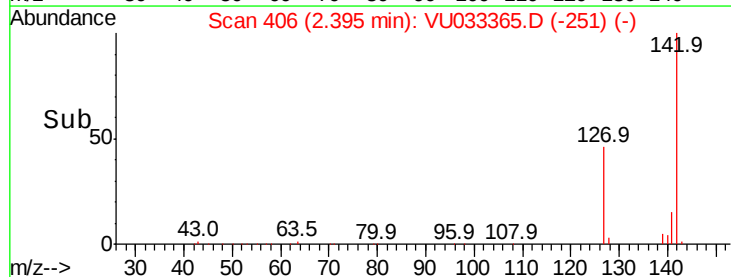
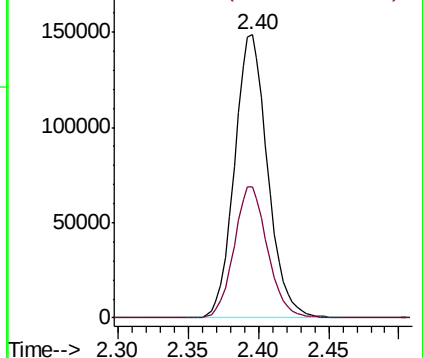
Acq: 22 Jul 2019 21:26

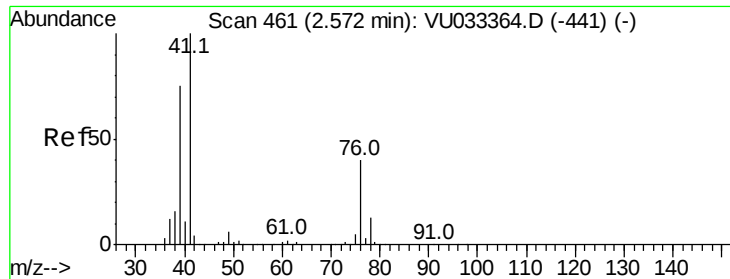
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 244921 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 127      | 46.7  | 37.8  | 56.6   |



Abundance Ion 142.00 (141.70 to 142.70): VU033364.D (-392) (-)

Ion 127.00 (126.70 to 127.70): VU033364.D (-392) (-)





#11

Allvl Chloride

Concen: 13.571 ug/l

RT: 2.57 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC015

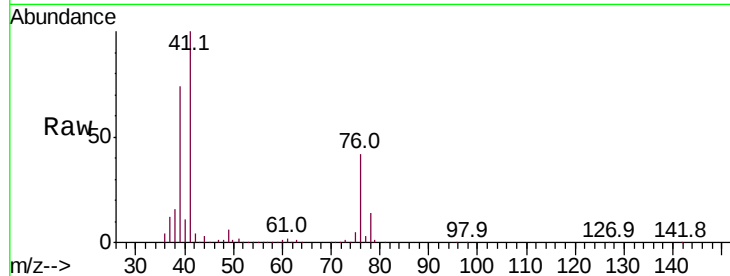
Tot Ion: 41 Resp: 280627

Ion Ratio Lower Upper

41 100

39 72.8 58.7 88.1

Manual Integrations  
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Abundance Ion 41.00 (40.70 to 41.70): VU033364.D (-441) (-)

Ion 39.00 (38.70 to 39.70): VU033364.D (-441) (-)

200000

150000

100000

50000

0

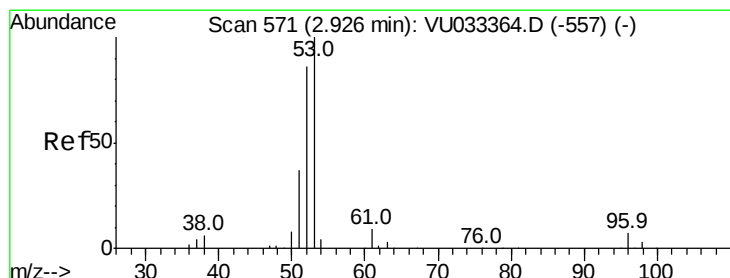
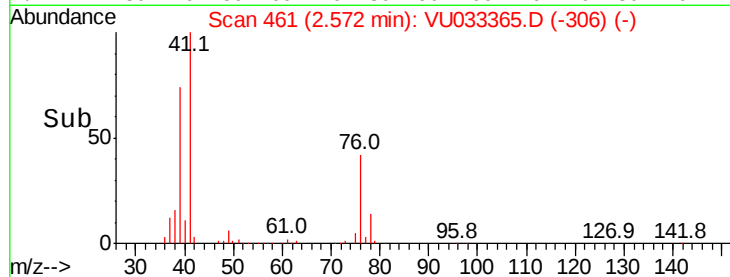
2.57

2.50 2.60

Time-->

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7/23/2019 8:55:14 AM



#12

Acrylonitrile

Concen: 31.566 ug/l m

RT: 2.93 min Scan# 572

Delta R.T. 0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

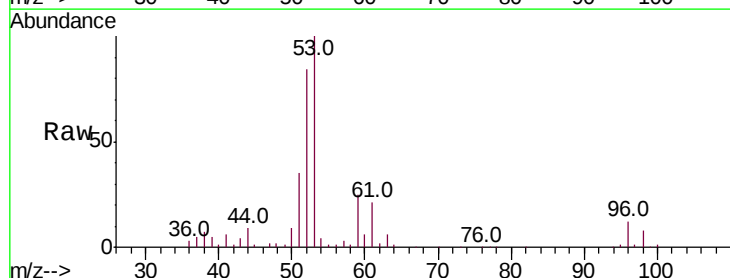
Tgt Ion: 53 Resp: 93352

Ion Ratio Lower Upper

53 100

52 84.8 69.8 104.8

51 34.7 29.1 43.7



Abundance Ion 53.00 (52.70 to 53.70): VU033364.D (-557) (-)

Ion 52.00 (51.70 to 52.70): VU033364.D (-557) (-)

Ion 51.00 (50.70 to 51.70): VU033364.D (-557) (-)

60000

50000

40000

30000

20000

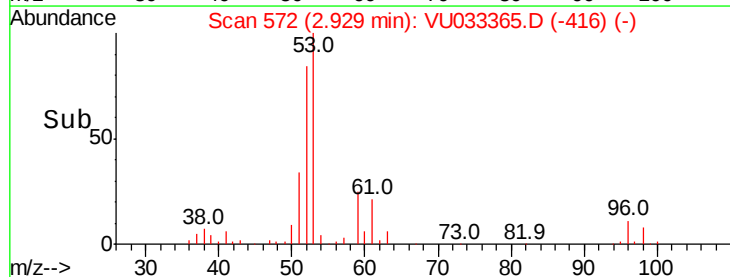
10000

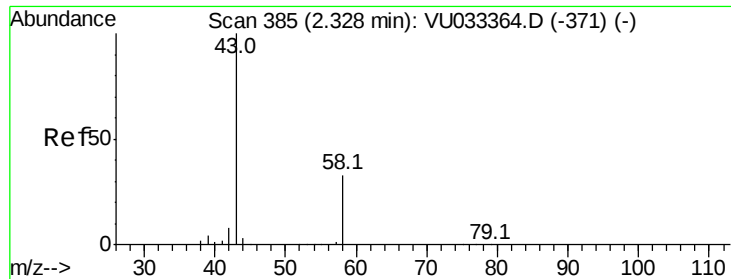
0

2.93

2.85 2.90 2.95 3.00

Time-->





#13

Acetone

Concen: 68.735 ug/l

RT: 2.33 min Scan# 385

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

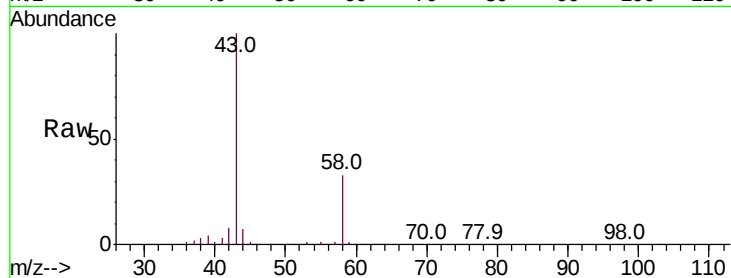
Tot Ion: 43 Resp: 182985

Ion Ratio Lower Upper

43 100

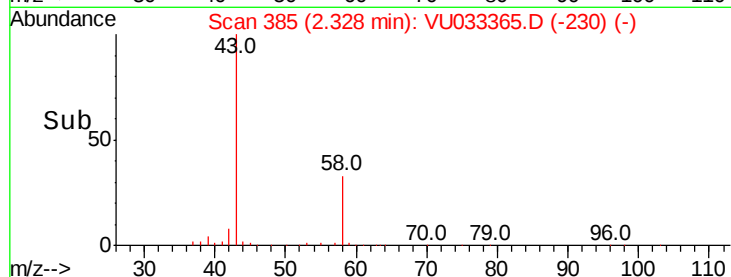
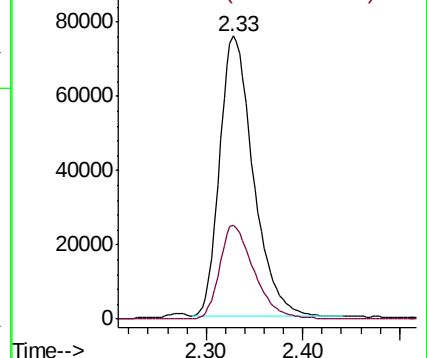
58 33.1 26.3 39.5

Manual Integrations  
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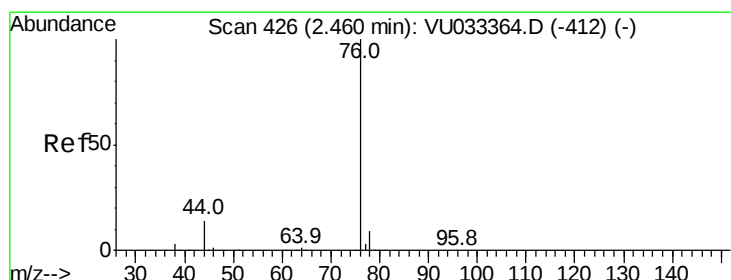
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



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7/23/2019 8:55:14 AM



#14

Carbon Disulfide

Concen: 16.737 ug/l

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033365.D

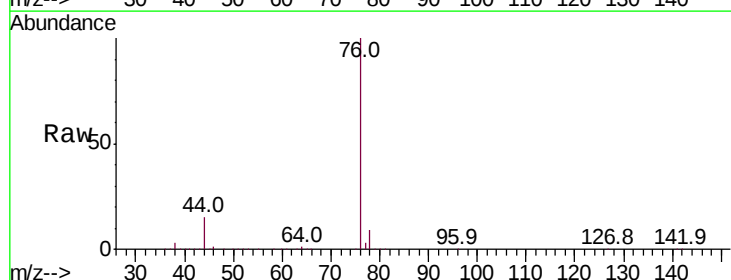
Acq: 22 Jul 2019 21:26

Tgt Ion: 76 Resp: 633643

Ion Ratio Lower Upper

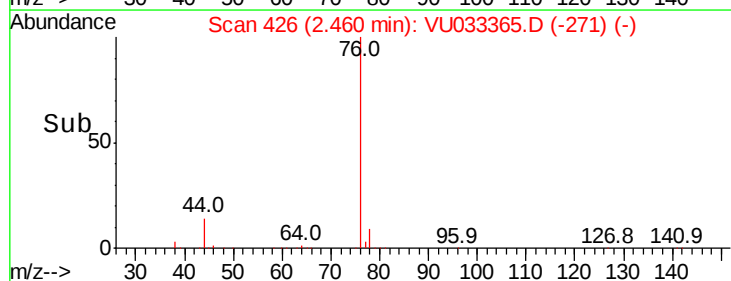
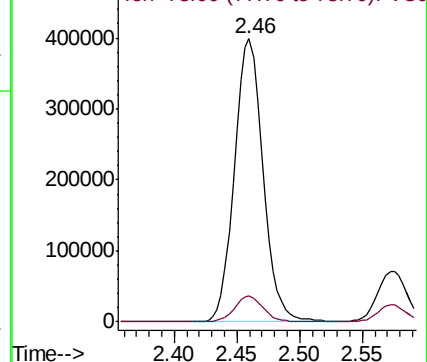
76 100

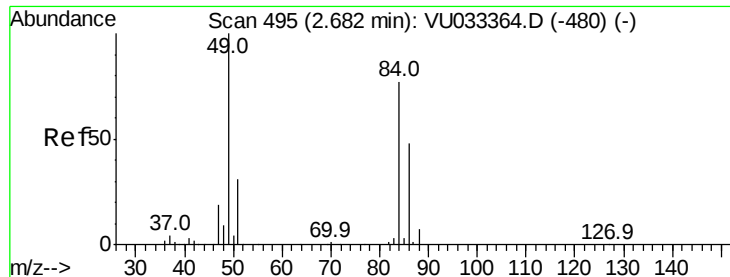
78 9.0 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



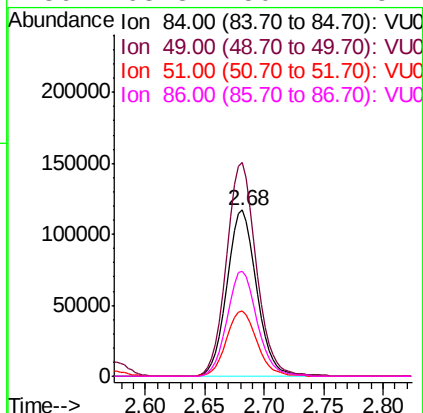
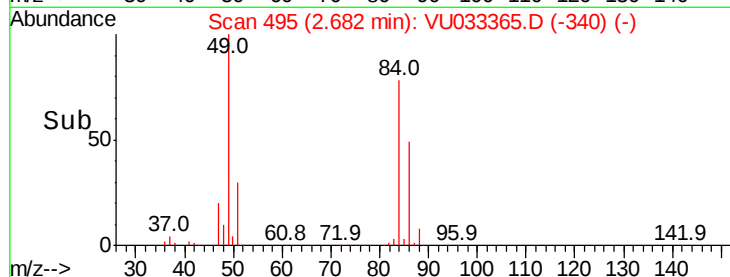
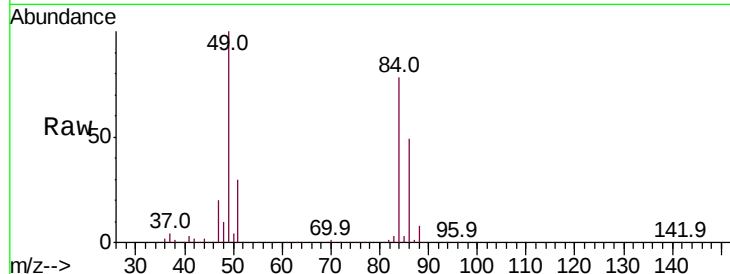


#15  
Methvlene Chloride  
Concen: 16.161 ug/l  
RT: 2.68 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

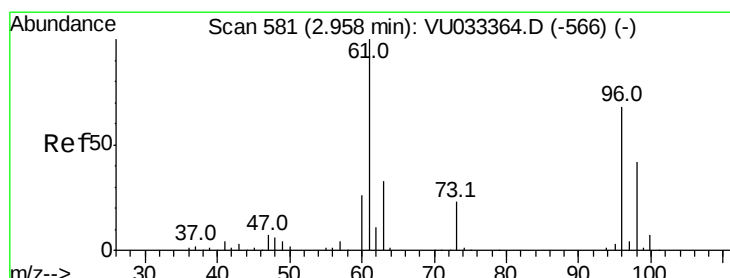
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 128.5 | 103.5 | 155.3 |
| 51      | 39.0  | 0.0   | 80.4  |
| 86      | 63.3  | 50.1  | 75.1  |

Manual Integrations  
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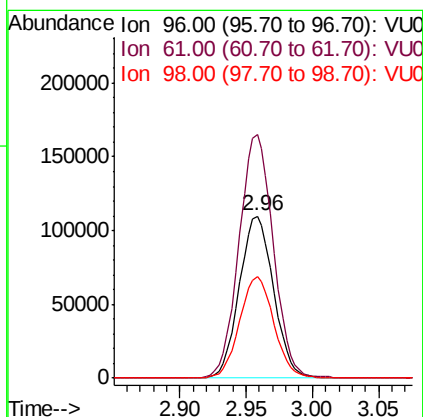
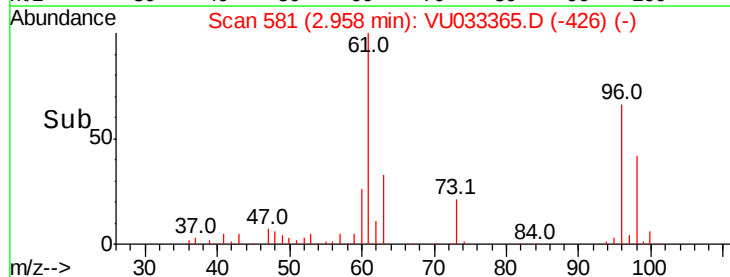
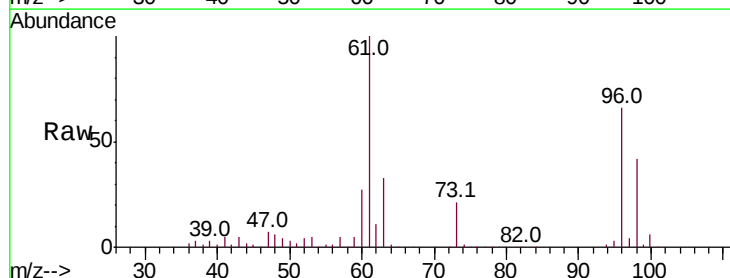
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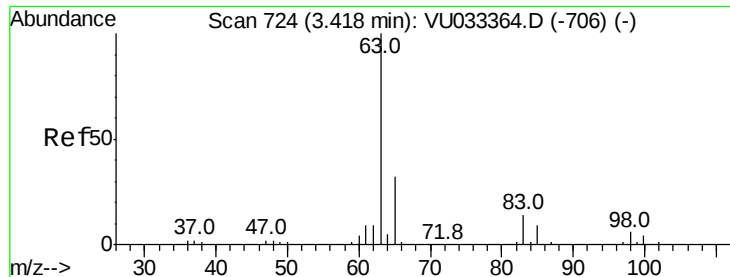
7/23/2019 8:55:14 AM



#16  
trans-1,2-Dichloroethene  
Concen: 17.740 ug/l  
RT: 2.96 min Scan# 581  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 150.3 | 118.0 | 177.0 |
| 98      | 62.5  | 49.4  | 74.2  |



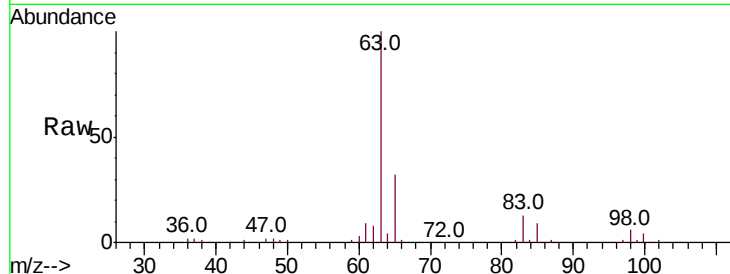


#17  
 1,1-Dichloroethane  
 Concen: 12.372 ug/l  
 RT: 3.42 min Scan# 724  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

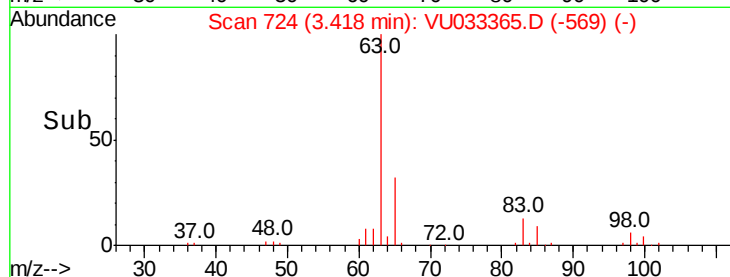
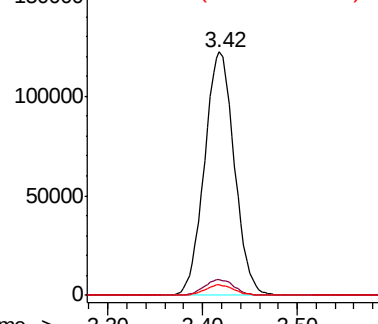
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 63      | 100   |      |       |       |
| 98      | 6.3   | 3.2  | 9.6   |       |
| 100     | 4.2   | 2.1  | 6.2   |       |

Manual Integrations  
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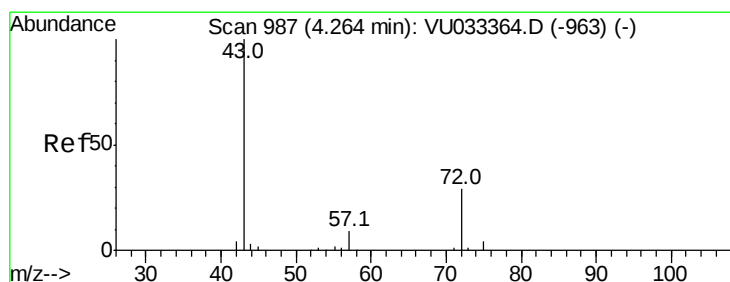


Abundance Ion 63.00 (62.70 to 63.70): VU033364.D (-706) (-)  
 Ion 98.00 (97.70 to 98.70): VU033365.D (-569) (-)  
 Ion 100.00 (99.70 to 100.70): VU033365.D (-569) (-)



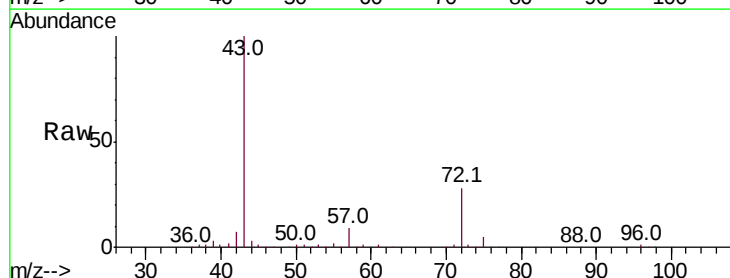
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7/23/2019 8:55:14 AM

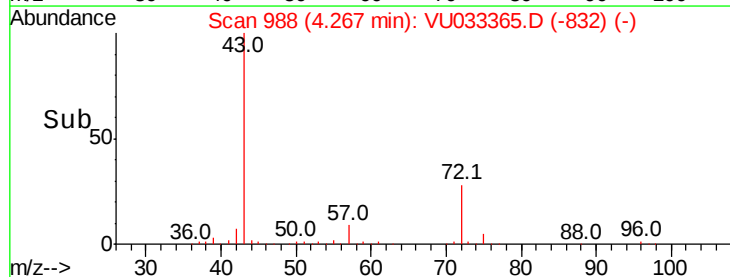
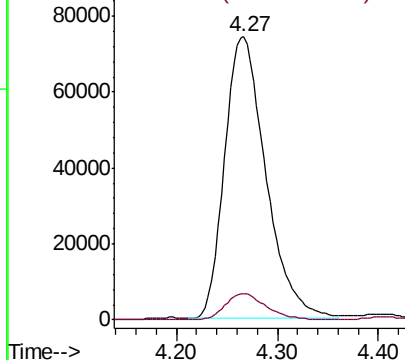


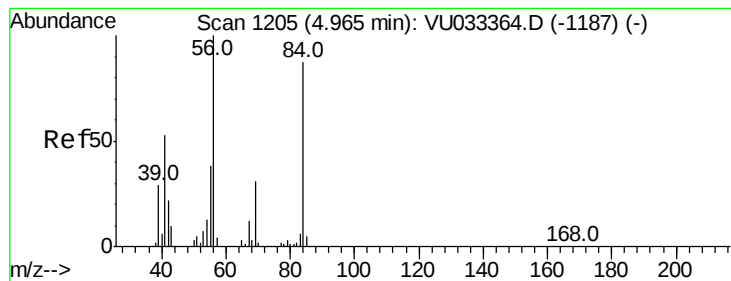
#18  
 2-Butanone  
 Concen: 63.584 ug/l  
 RT: 4.27 min Scan# 988  
 Delta R.T. 0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 57      | 9.2   | 0.0  | 17.0  |       |



Abundance Ion 43.00 (42.70 to 43.70): VU033364.D (-963) (-)  
 Ion 57.00 (56.70 to 57.70): VU033365.D (-832) (-)





#19

Cyclohexane

Concen: 13.872 ug/l m

RT: 4.96 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

Tot Ion: 56 Resp: 229000

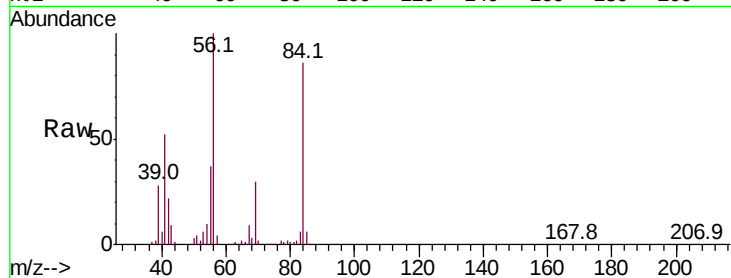
Ion Ratio Lower Upper

56 100

69 31.4 25.0 37.4

84 86.4 69.8 104.6

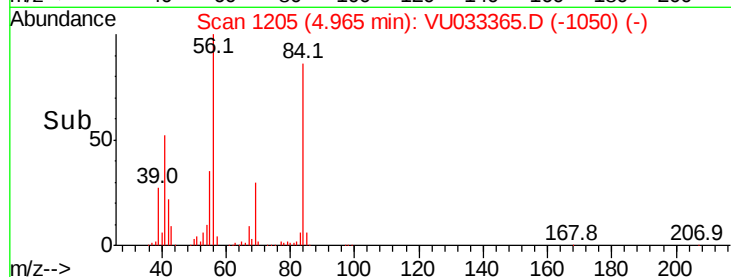
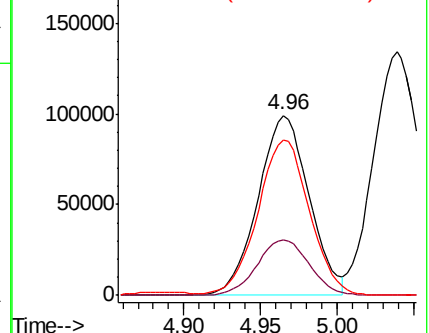
Manual Integrations  
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Abundance Ion 56.00 (55.70 to 56.70): VU033364.D (-1187) (-)

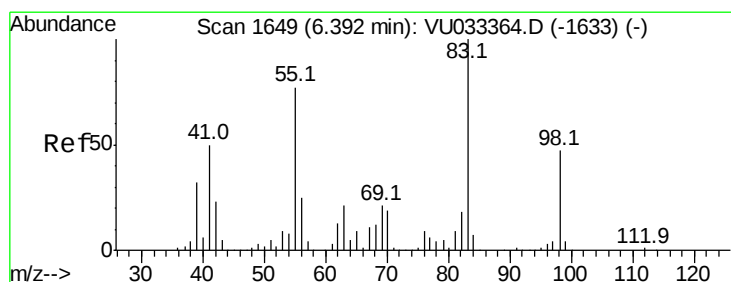
Ion 69.00 (68.70 to 69.70): VU033364.D (-1187) (-)

Ion 84.00 (83.70 to 84.70): VU033364.D (-1187) (-)



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7/23/2019 8:55:14 AM



#20

Methylcyclohexane

Concen: 18.045 ug/l

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

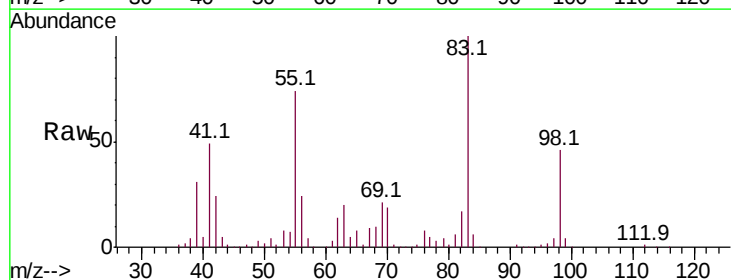
Tgt Ion: 83 Resp: 246902

Ion Ratio Lower Upper

83 100

55 75.5 62.3 93.5

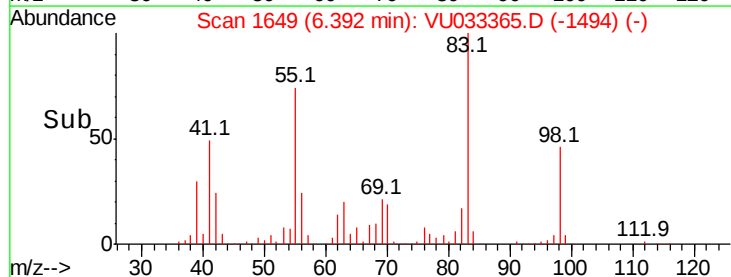
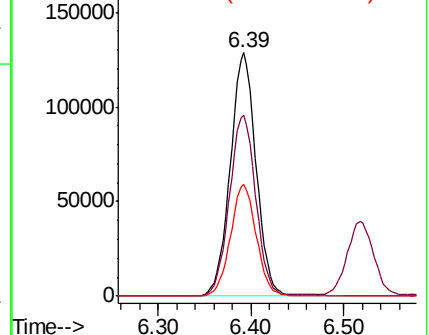
98 45.6 37.4 56.0

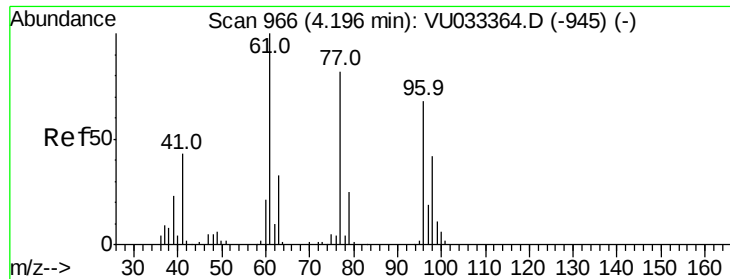


Abundance Ion 83.00 (82.70 to 83.70): VU033364.D (-1633) (-)

Ion 55.00 (54.70 to 55.70): VU033364.D (-1633) (-)

Ion 98.00 (97.70 to 98.70): VU033364.D (-1633) (-)



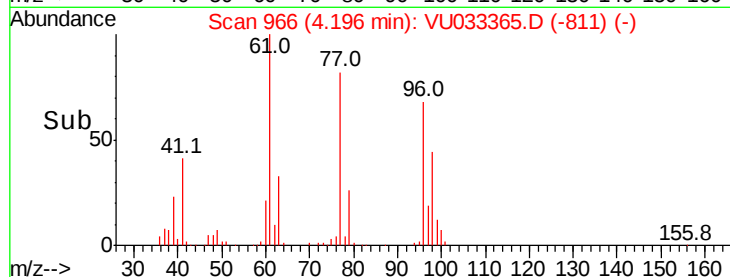
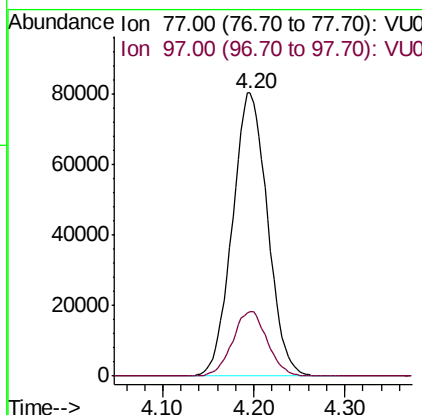
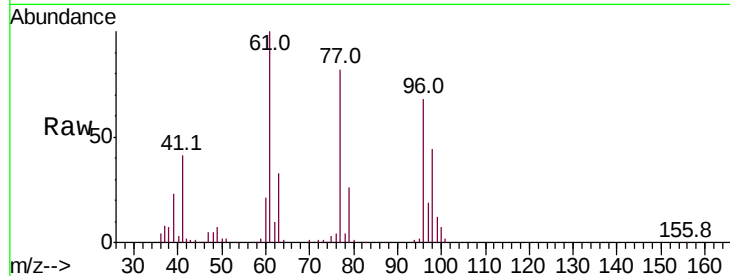


#21  
 2,2-Dichloropropane  
 Concen: 13.403 ug/l  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

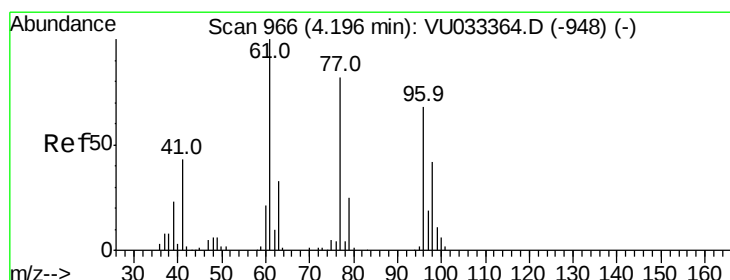
Tot Ion: 77 Resp: 215440  
 Ion Ratio Lower Upper  
 77 100  
 97 22.5 17.8 26.8

Manual Integrations  
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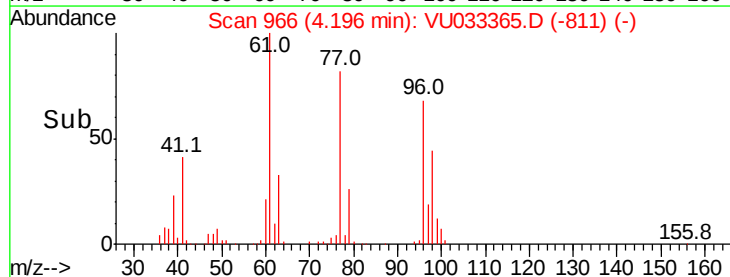
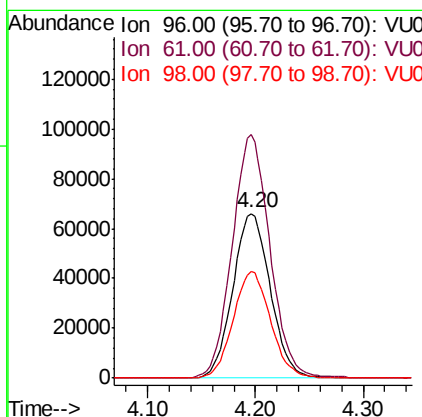
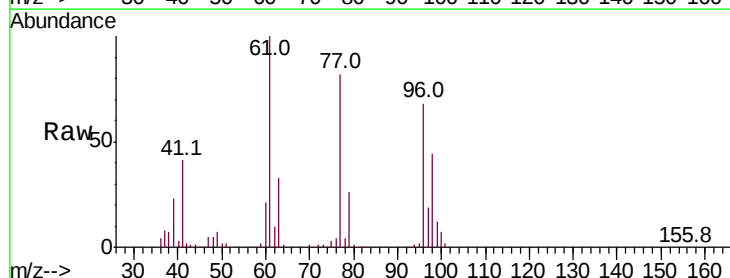
MMDadoda

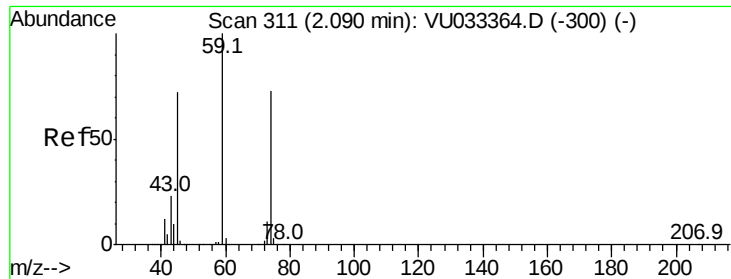
7/23/2019 8:55:14 AM



#22  
 cis-1,2-Dichloroethene  
 Concen: 14.147 ug/l  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Tgt Ion: 96 Resp: 159788  
 Ion Ratio Lower Upper  
 96 100  
 61 148.8 0.0 376.3  
 98 64.7 31.9 95.9



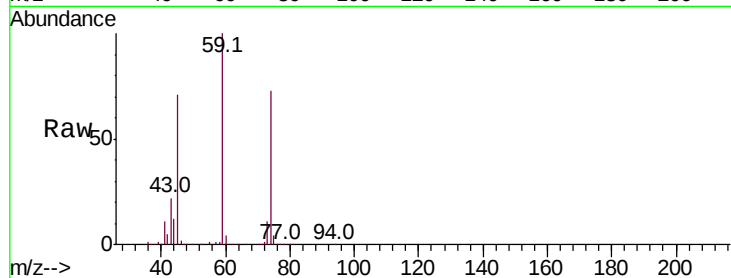


#23  
Diethyl Ether  
Concen: 15.991 ug/l  
RT: 2.09 min Scan# 311  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

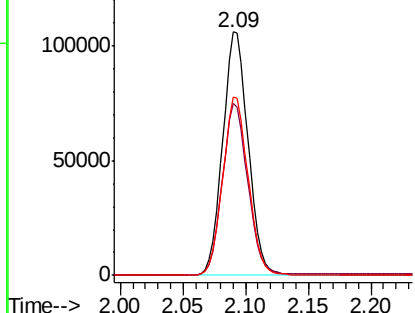
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 70.5  | 57.6  | 86.4  |
| 74      | 73.2  | 57.8  | 86.6  |

Manual Integrations  
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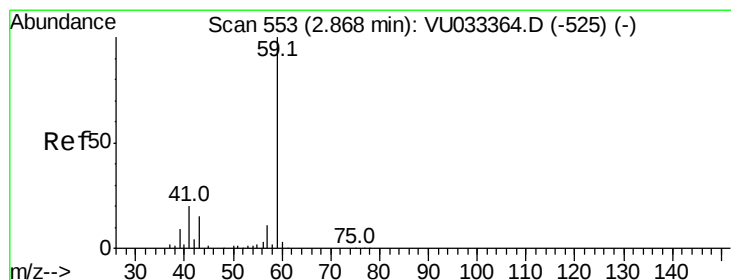
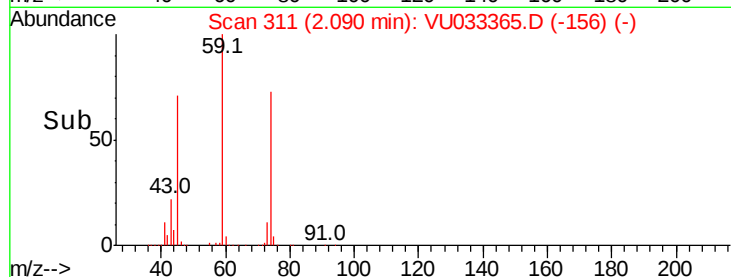


Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0  
Ion 74.00 (73.70 to 74.70): VU0



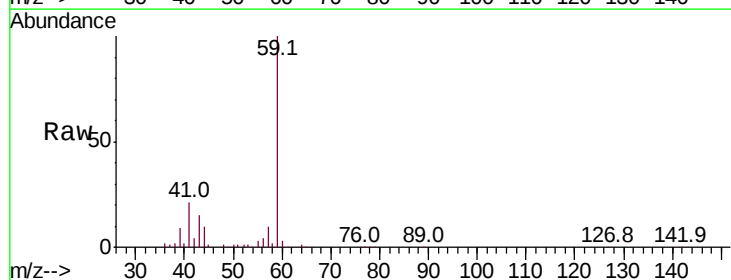
MMDadoda

7/23/2019 8:55:14 AM

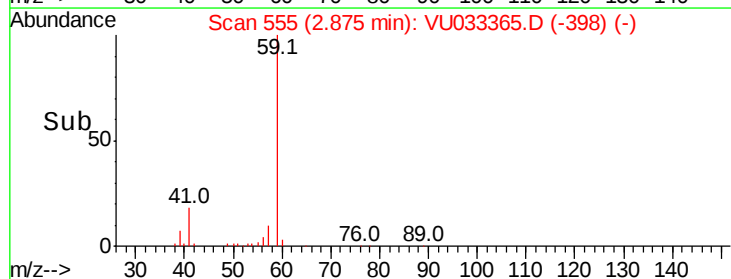
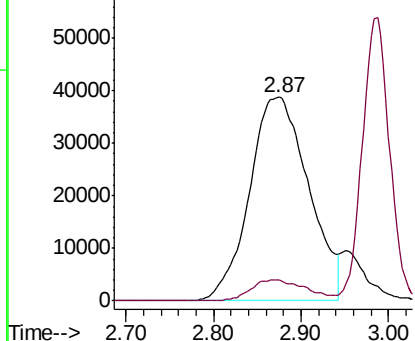


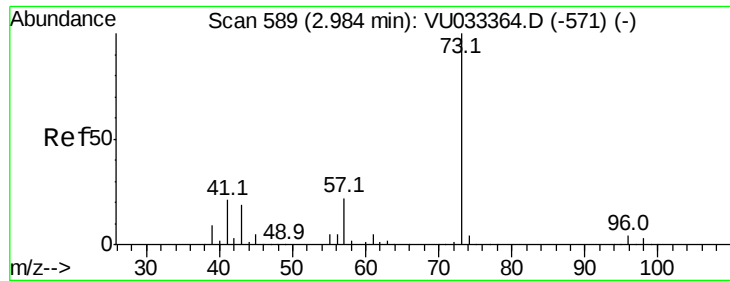
#24  
tert-Butyl Alcohol  
Concen: 179.416 ug/l  
RT: 2.87 min Scan# 555  
Delta R.T. 0.01 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.7   | 7.8   | 11.8  |



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0



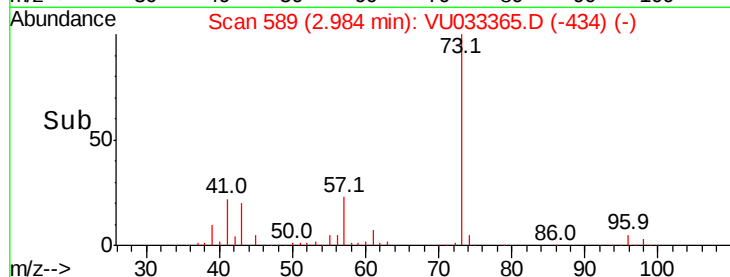
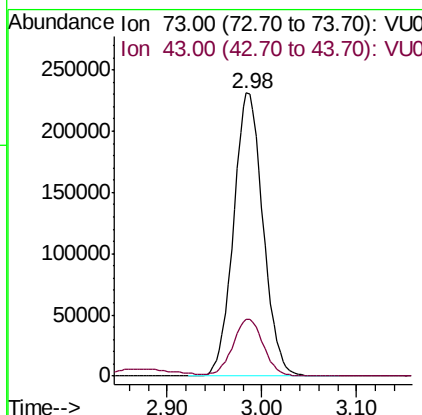
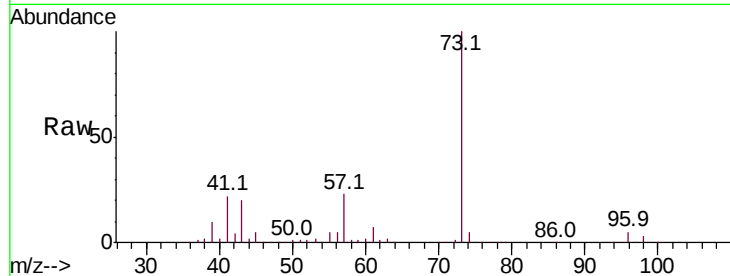


#25  
Methvl tert-Butvl Ether  
Concen: 17.410 ug/l  
RT: 2.98 min Scan# 589  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

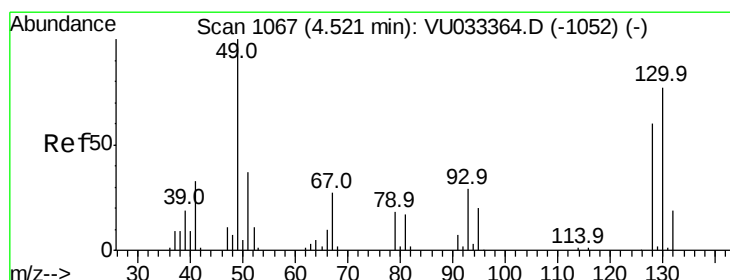
Tot Ion: 73 Resp: 500181  
Ion Ratio Lower Upper  
73 100  
43 20.7 16.6 24.8

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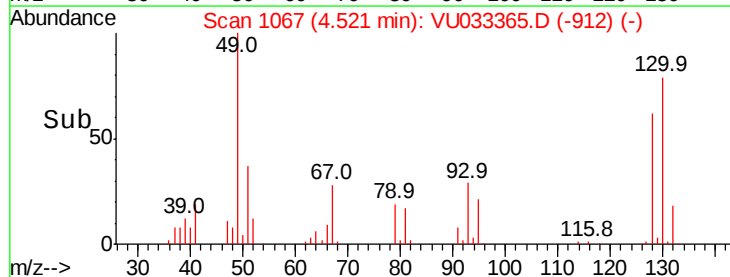
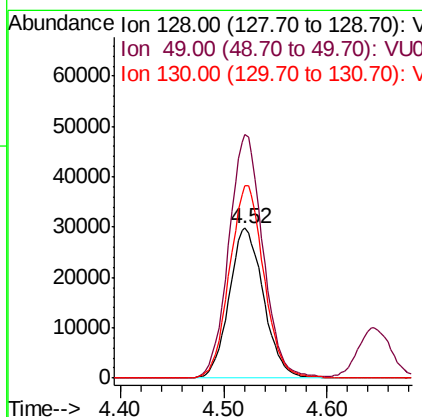
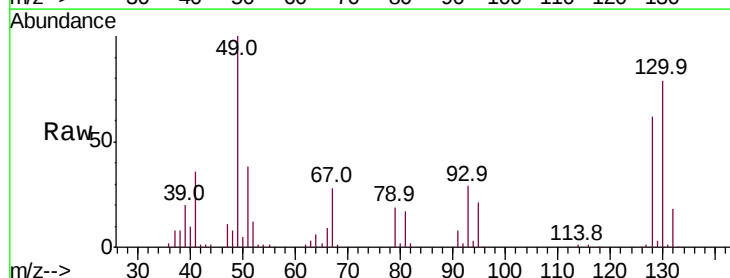
MMDadoda

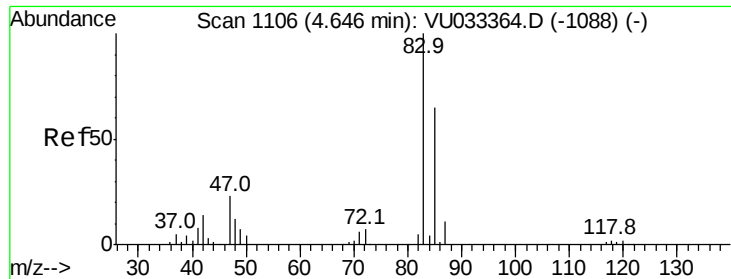
7/23/2019 8:55:14 AM



#26  
Bromochloromethane  
Concen: 14.389 ug/l  
RT: 4.52 min Scan# 1067  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Tgt Ion: 128 Resp: 69029  
Ion Ratio Lower Upper  
128 100  
49 161.1 0.0 333.4  
130 128.8 103.4 155.2



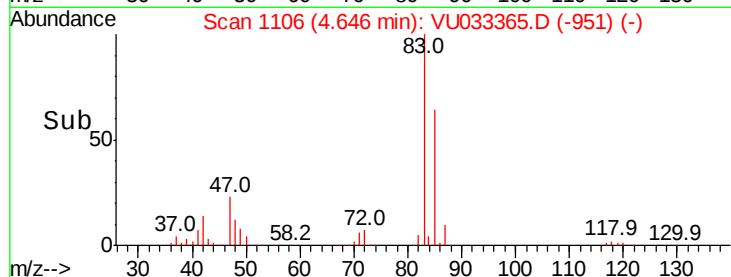
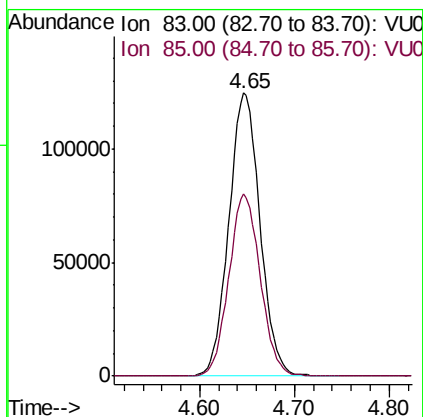
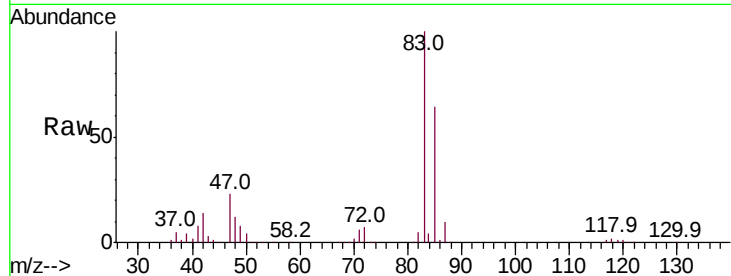


#27  
Chloroform  
Concen: 13.924 ug/l  
RT: 4.65 min Scan# 1106  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC015

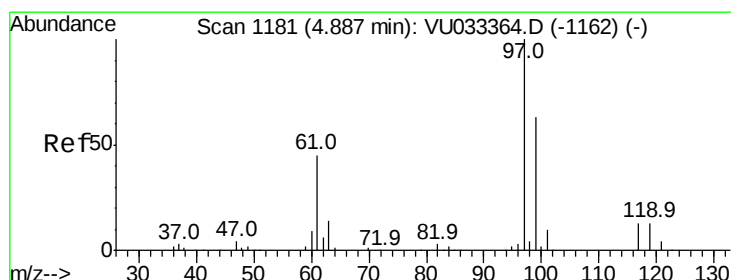
| Tot Ion | 83    | Resp  | 285077 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 85      | 64.4  | 0.0   | 129.8  |

Manual Integrations  
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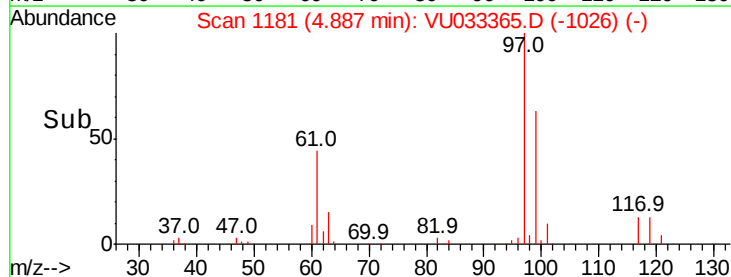
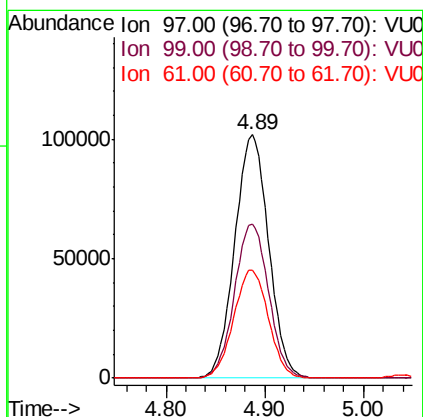
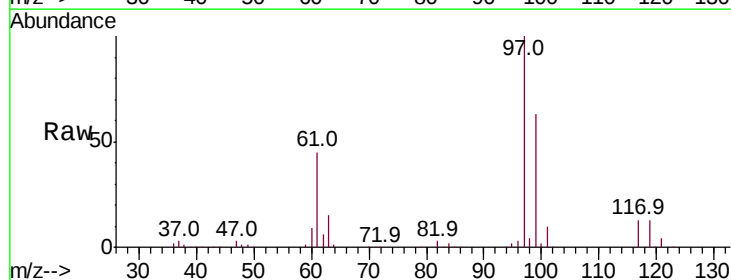
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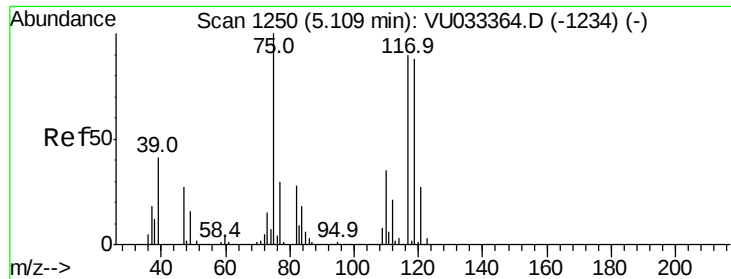
7/23/2019 8:55:14 AM



#28  
1,1,1-Trichloroethane  
Concen: 14.071 ug/l  
RT: 4.89 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | 97    | Resp  | 243570 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 97      | 100   |       |        |
| 99      | 63.9  | 31.9  | 95.5   |
| 61      | 45.5  | 22.7  | 68.0   |



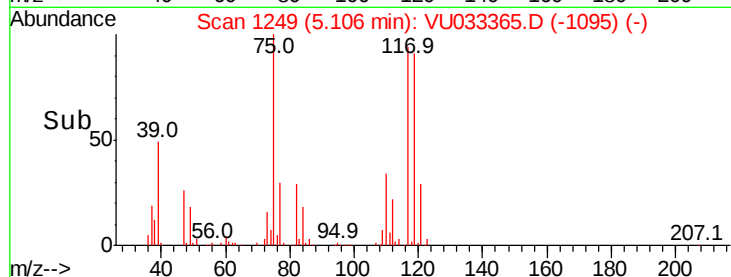
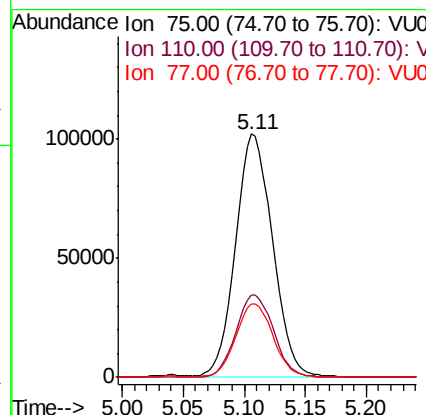
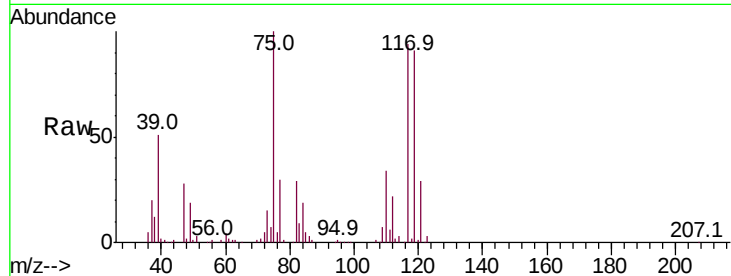


#29  
1,1-Dichloropropene  
Concen: 15.354 ug/l  
RT: 5.11 min Scan# 1249  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

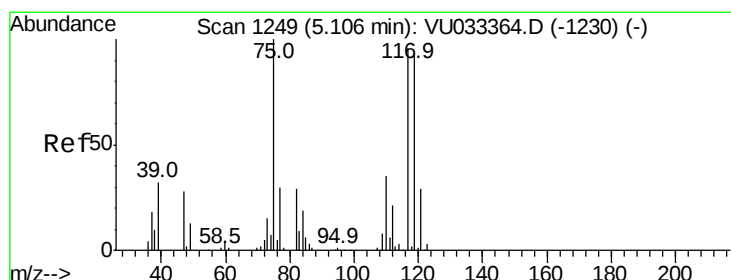
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.9  | 17.5  | 52.6  |
| 77      | 30.6  | 25.1  | 37.7  |

Manual Integrations  
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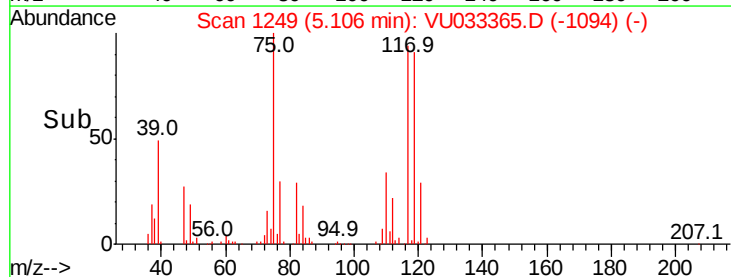
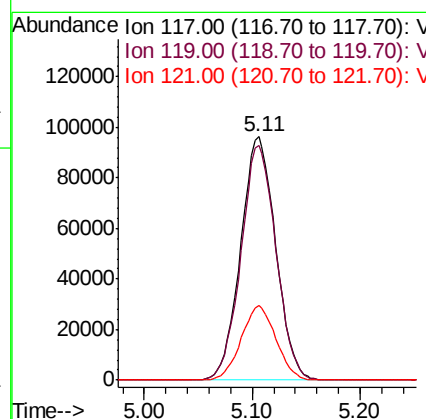
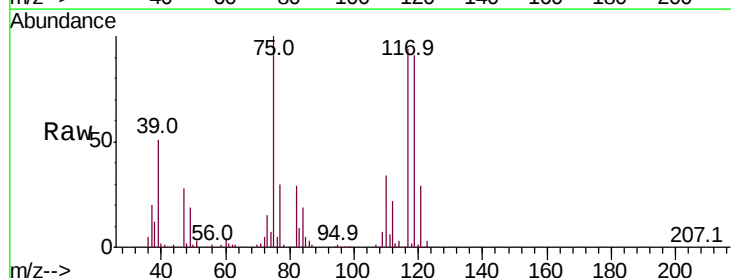
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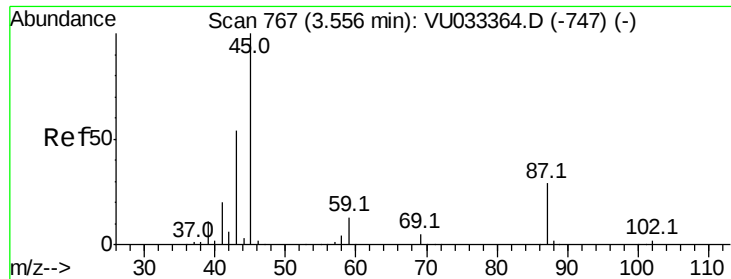
7/23/2019 8:55:14 AM



#30  
Carbon Tetrachloride  
Concen: 14.688 ug/l  
RT: 5.11 min Scan# 1249  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.6  | 77.9  | 116.9 |
| 121     | 30.8  | 24.0  | 36.0  |





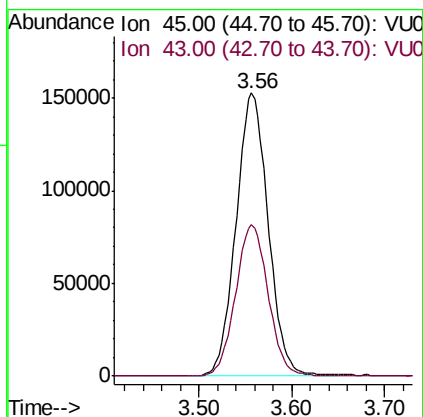
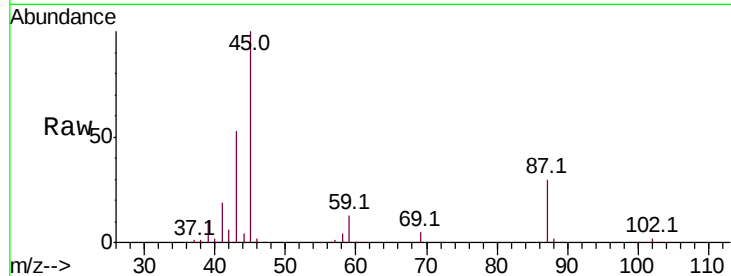
#31

Isopropyl Ether  
 Concen: 11.584 ug/l  
 RT: 3.56 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

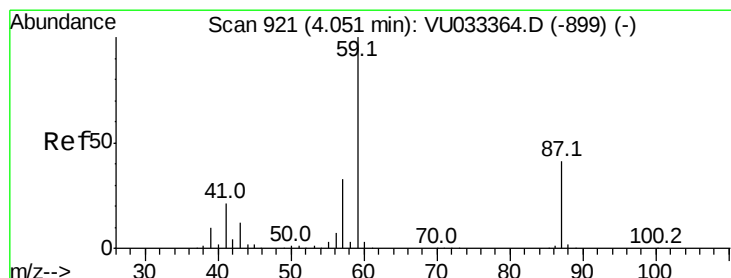
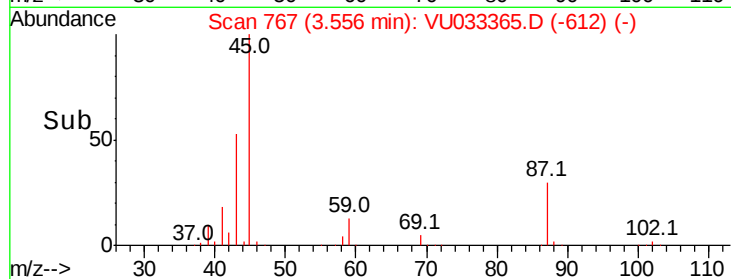
| Tot Ion | 45   | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 45      | 100  |       |       |       |
| 43      | 54.2 | 27.8  | 83.3  |       |

Manual Integrations  
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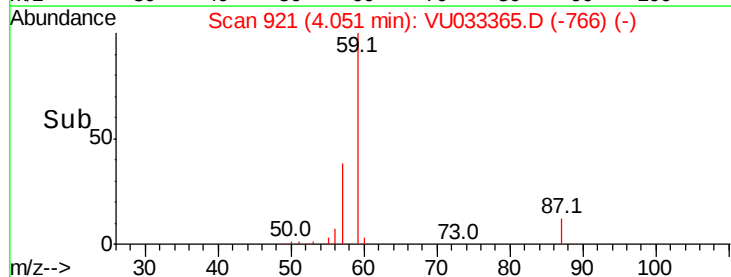
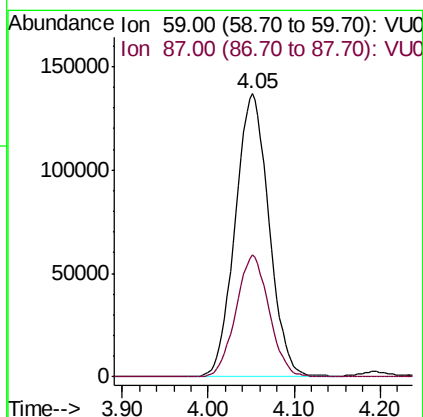
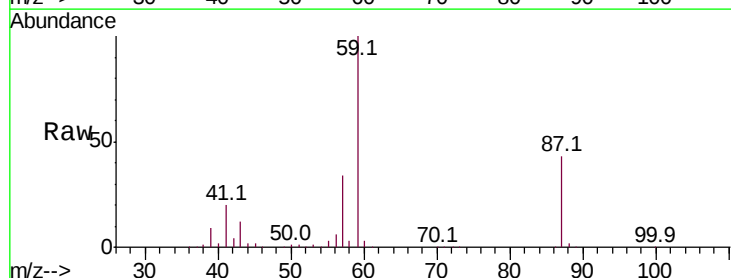
7/23/2019 8:55:14 AM

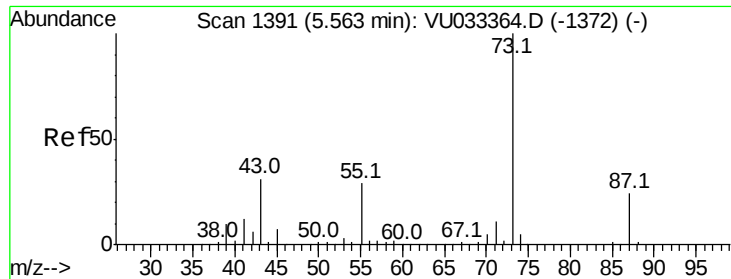


#32

Ethyl-t-butyl ether  
 Concen: 14.142 ug/l  
 RT: 4.05 min Scan# 921  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | 59   | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 59      | 100  |       |       |       |
| 87      | 42.5 | 33.8  | 50.6  |       |



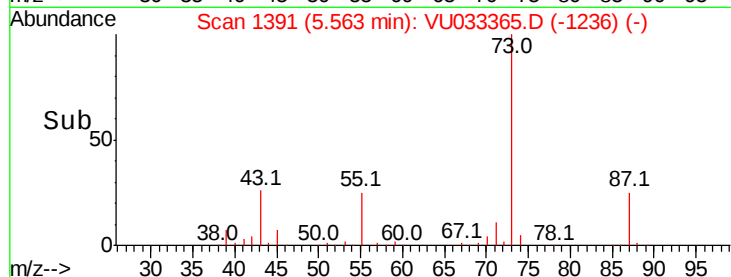
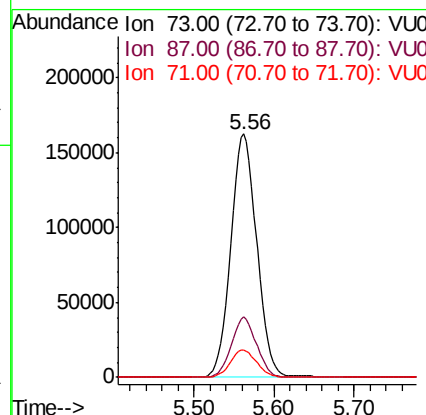
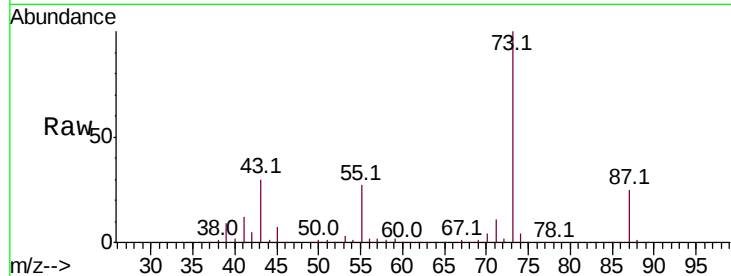


#33  
Tert-Amvl methvl ether  
Concen: 16.775 ug/l  
RT: 5.56 min Scan# 1391  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

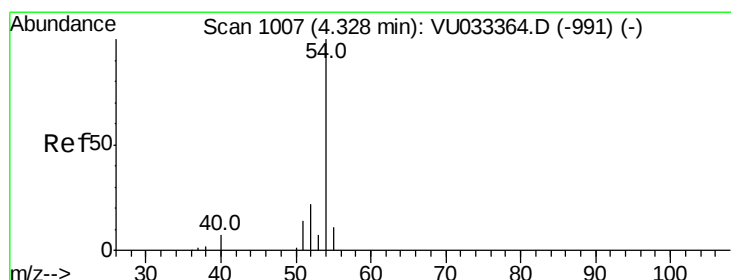
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 23.8  | 18.9  | 28.3  |
| 71      | 11.5  | 9.3   | 13.9  |

Manual Integrations  
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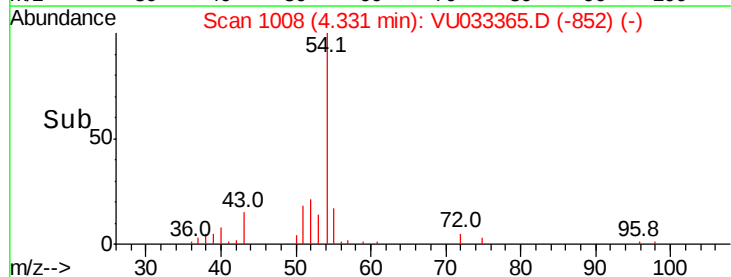
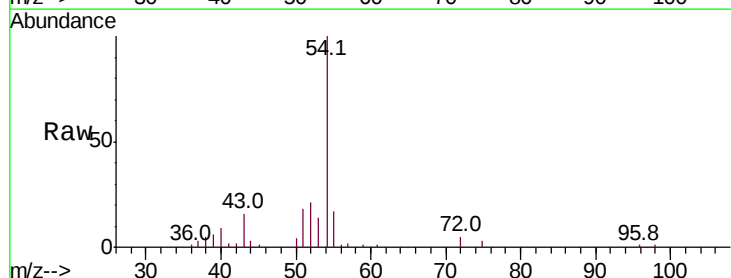
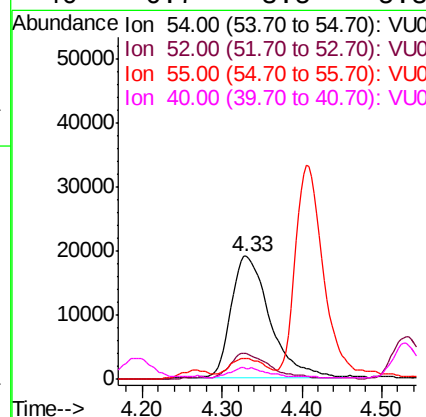
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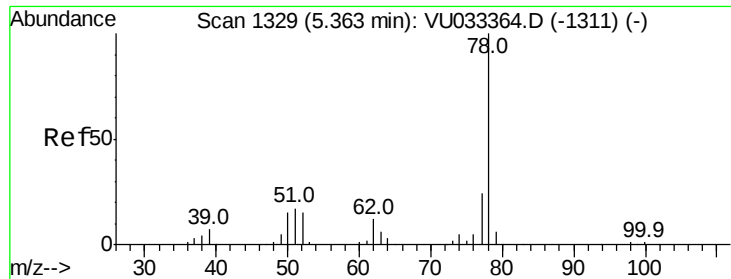
7/23/2019 8:55:14 AM



#34  
Propionitrile  
Concen: 69.476 ug/l  
RT: 4.33 min Scan# 1008  
Delta R.T. 0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 20.3  | 17.1  | 25.7  |
| 55      | 15.2  | 11.6  | 17.4  |
| 40      | 6.7   | 3.5   | 5.3   |





#35

Benzene

Concen: 14.267 ug/l

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

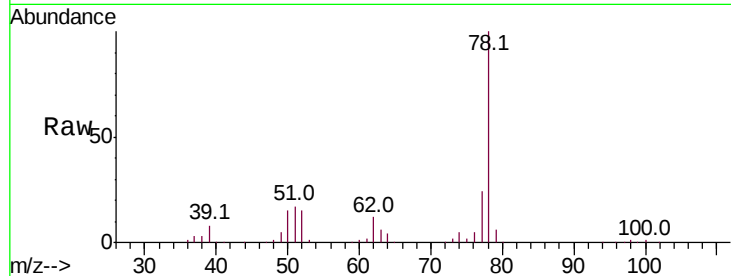
Tot Ion: 78 Resp: 605499

Ion Ratio Lower Upper

78 100

77 23.8 19.4 29.2

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Abundance Ion 78.10 (77.80 to 78.80): VU033364.D (-1311) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-1311) (-)

5.36

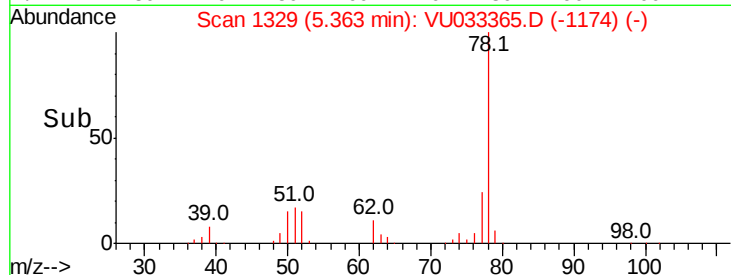
300000

200000

100000

0

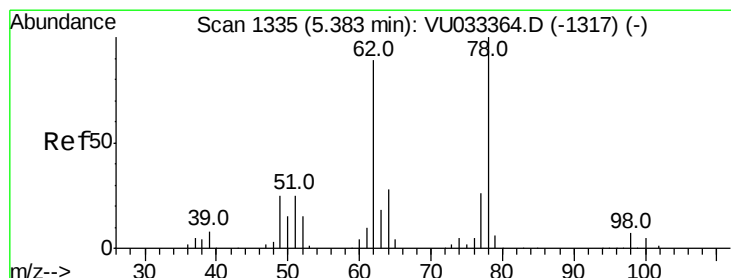
Time-->



Time-->

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7/23/2019 8:55:14 AM



#36

1,2-Dichloroethane

Concen: 13.979 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU033365.D

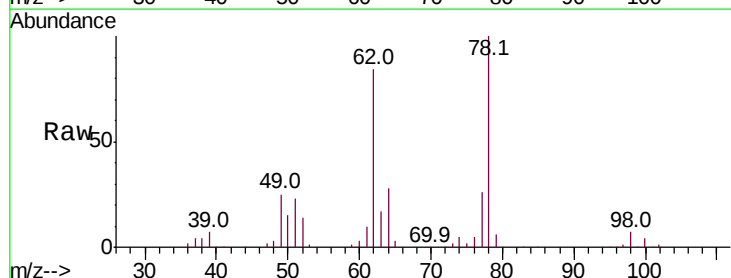
Acq: 22 Jul 2019 21:26

Tgt Ion: 62 Resp: 194700

Ion Ratio Lower Upper

62 100

98 8.6 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU033364.D (-1317) (-)

Ion 98.00 (97.70 to 98.70): VU033364.D (-1317) (-)

5.38

100000

80000

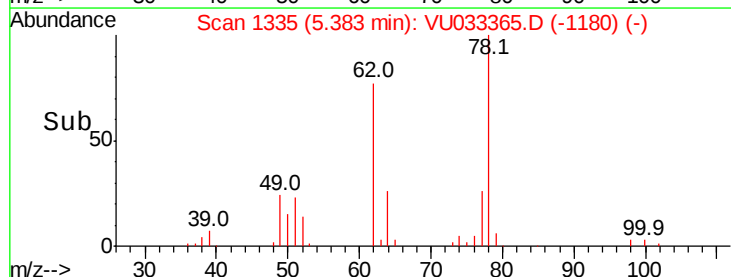
60000

40000

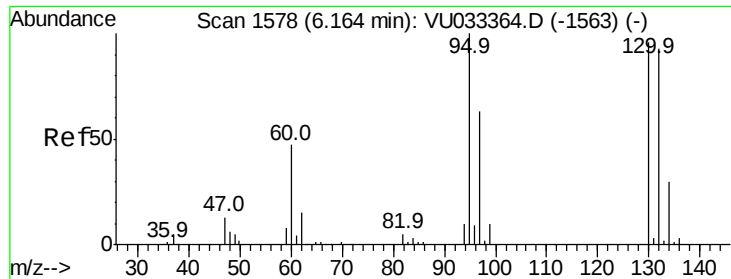
20000

0

Time-->



Time-->



#37

Trichloroethene

Concen: 15.173 ug/l

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033365.D

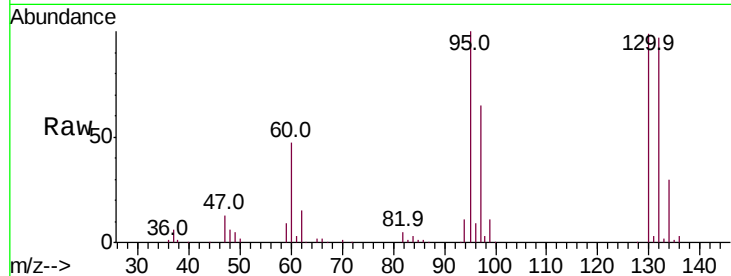
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

Tot Ion:130 Resp: 160029

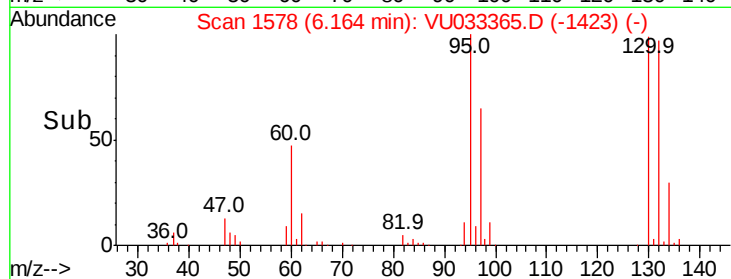
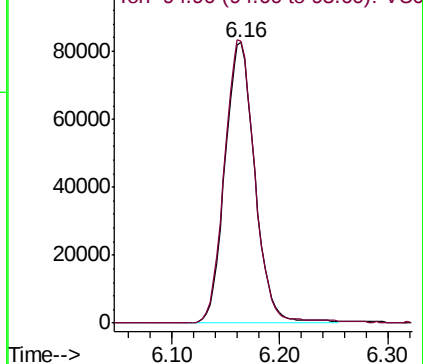
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 100.9 | 83.4  | 125.0 |

Manual Integrations  
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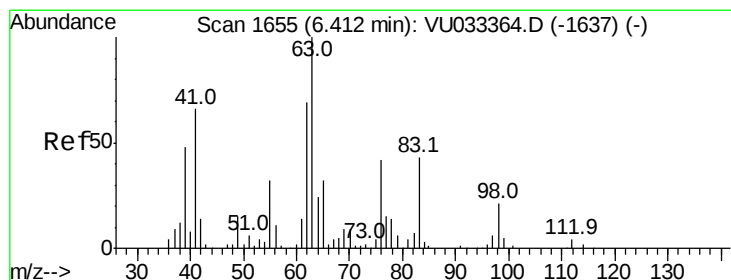
Abundance Ion 129.90 (129.60 to 130.60): VU033364.D (-1563) (-)

Ion 94.90 (94.60 to 95.60): VU033364.D (-1563) (-)



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7/23/2019 8:55:14 AM



#38

1,2-Dichloropropane

Concen: 13.864 ug/l

RT: 6.41 min Scan# 1655

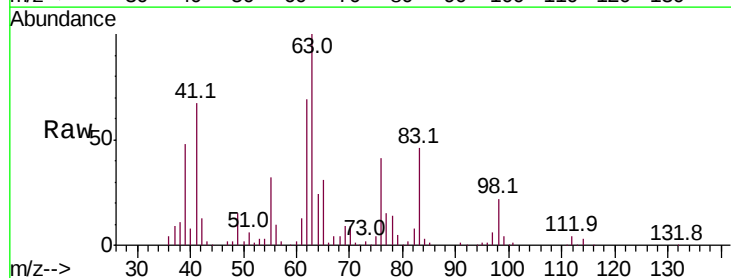
Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

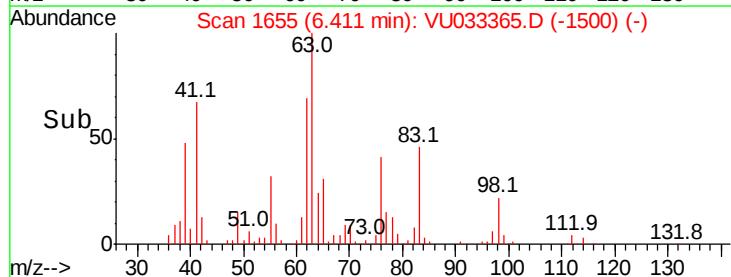
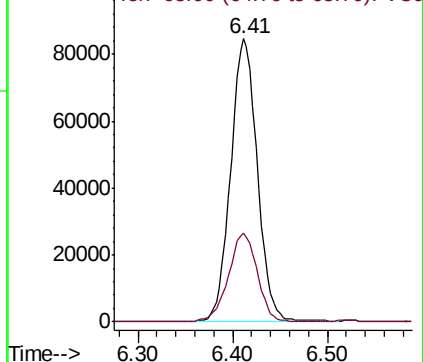
Tgt Ion: 63 Resp: 165813

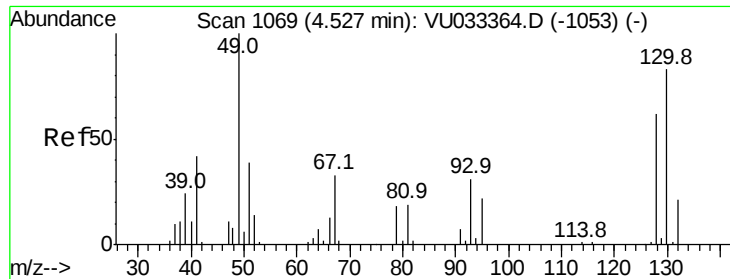
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.2  | 25.7  | 38.5  |



Abundance Ion 63.00 (62.70 to 63.70): VU033364.D (-1637) (-)

Ion 65.00 (64.70 to 65.70): VU033364.D (-1637) (-)



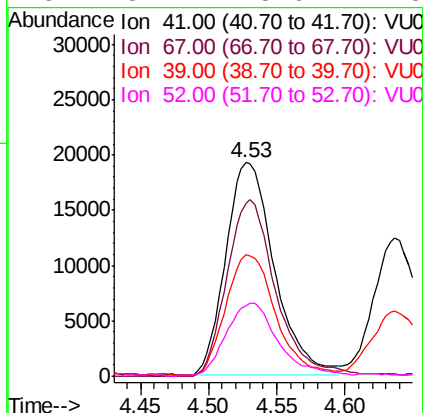
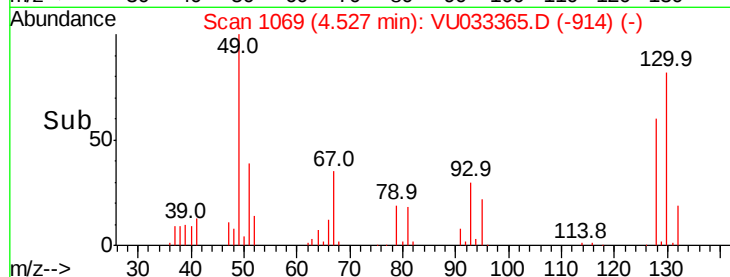
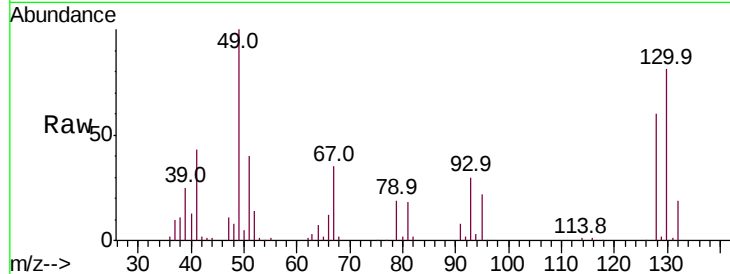


#39  
Methacrylonitrile  
Concen: 12.857 ug/l  
RT: 4.53 min Scan# 1069  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC015

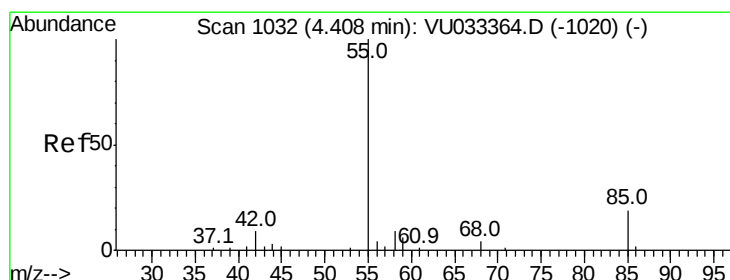
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 84.3  | 64.4  | 96.6  |
| 39      | 59.2  | 46.8  | 70.2  |
| 52      | 37.2  | 28.6  | 42.8  |

Manual Integrations  
APPROVED



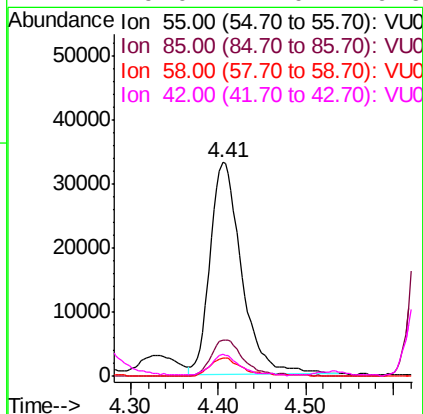
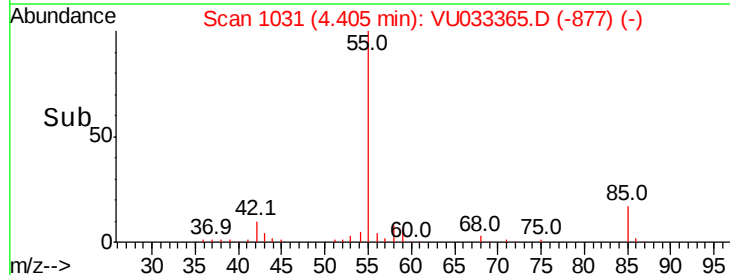
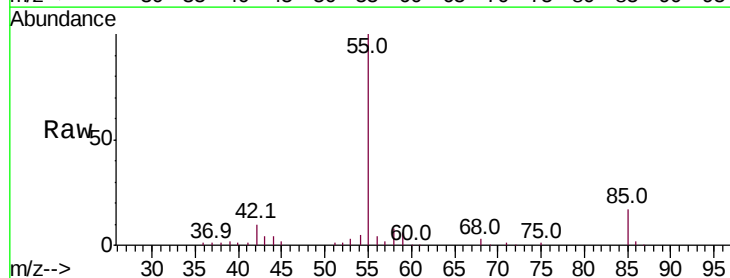
MMDadoda

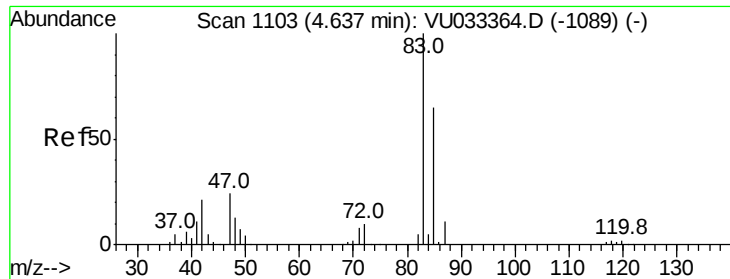
7/23/2019 8:55:14 AM



#40  
Methyl acrylate  
Concen: 17.020 ug/l  
RT: 4.41 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 17.0  | 14.8  | 22.2  |
| 58      | 8.7   | 7.1   | 10.7  |
| 42      | 9.0   | 7.0   | 10.6  |



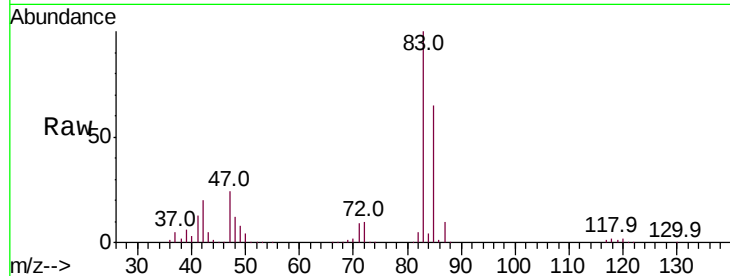


#41  
Tetrahydrofuran  
Concen: 24.848 ug/l  
RT: 4.64 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 51.2  | 38.7  | 58.1  |
| 71      | 46.4  | 34.6  | 52.0  |

Manual Integrations  
APPROVED

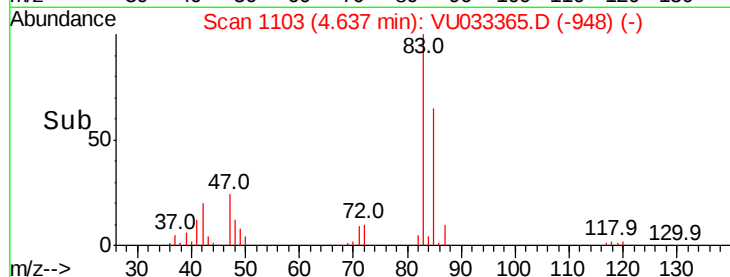
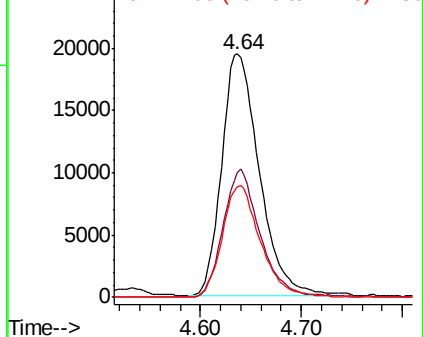


Abundance

Ion 42.00 (41.70 to 42.70): VU0

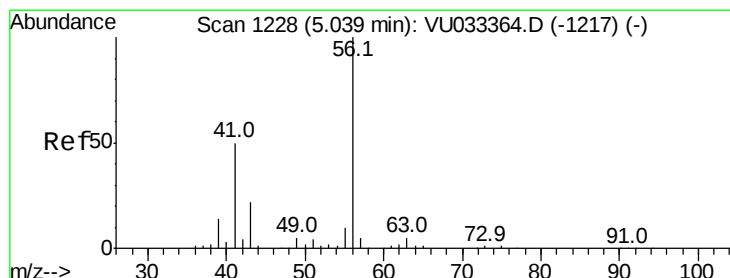
Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



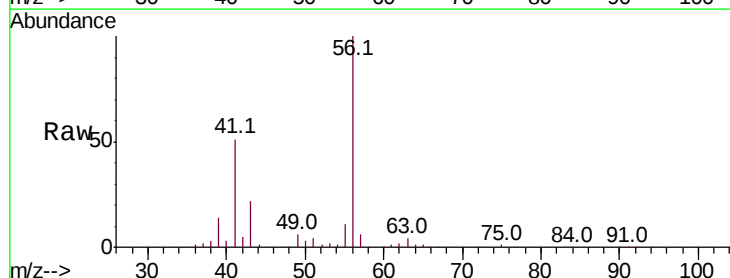
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7/23/2019 8:55:14 AM



#42  
1-Chlorobutane  
Concen: 13.844 ug/l  
RT: 5.04 min Scan# 1228  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

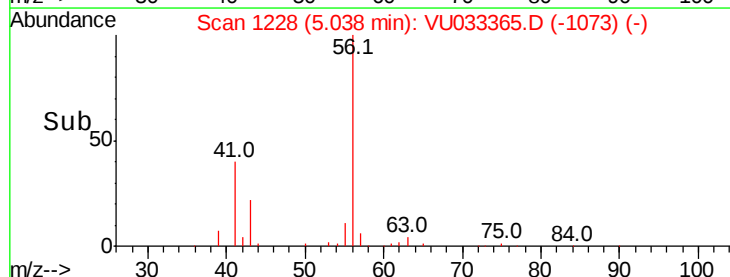
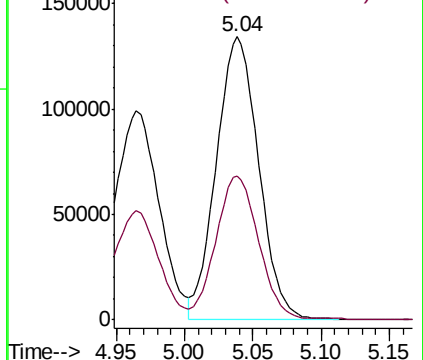
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 50.8  | 25.7  | 77.1  |

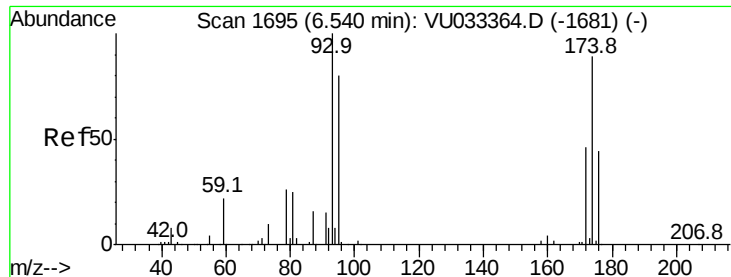


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 41.00 (40.70 to 41.70): VU0



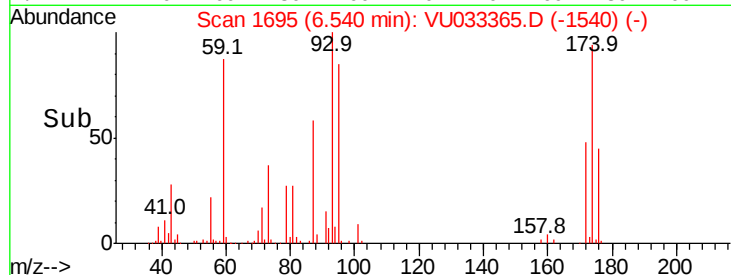
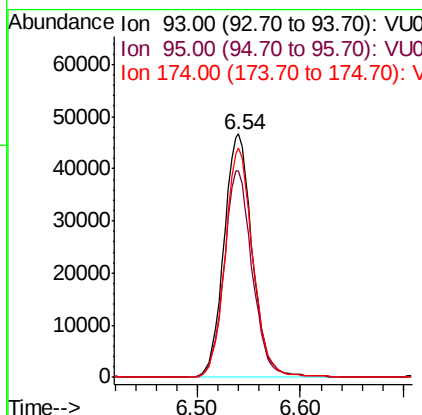
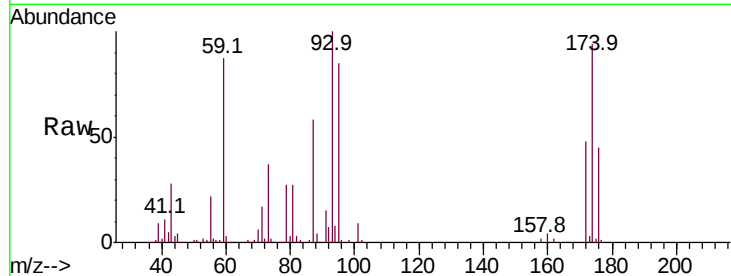


#43  
Dibromomethane  
Concen: 14.875 ug/l  
RT: 6.54 min Scan# 1695  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

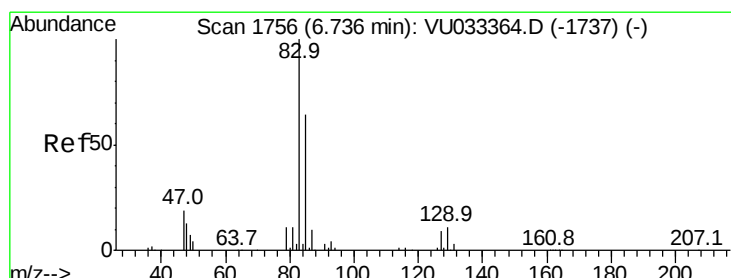
| Tot Ion   | 93   | Resp  | 89401 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 93        | 100  |       |       |
| 95        | 84.4 | 65.3  | 97.9  |
| 174       | 91.6 | 70.7  | 106.1 |

Manual Integrations  
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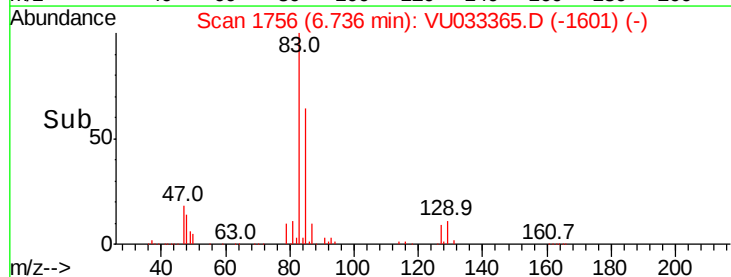
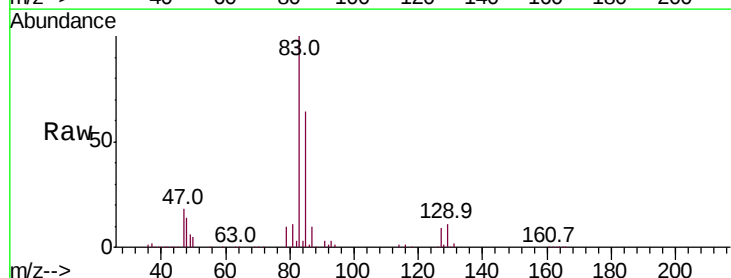
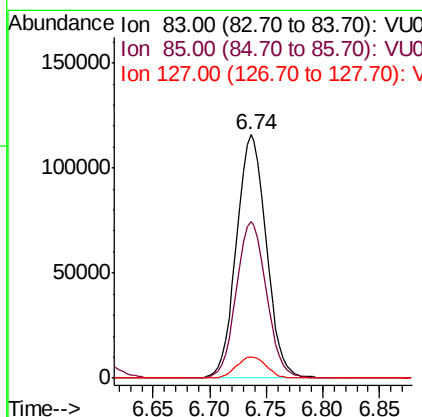
MM Dadoda

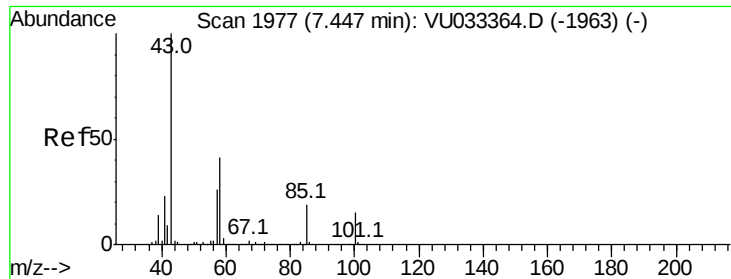
7/23/2019 8:55:14 AM



#44  
Bromodichloromethane  
Concen: 14.386 ug/l  
RT: 6.74 min Scan# 1756  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion   | 83   | Resp  | 213008 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 64.4 | 51.1  | 76.7   |
| 127       | 8.7  | 7.2   | 10.8   |



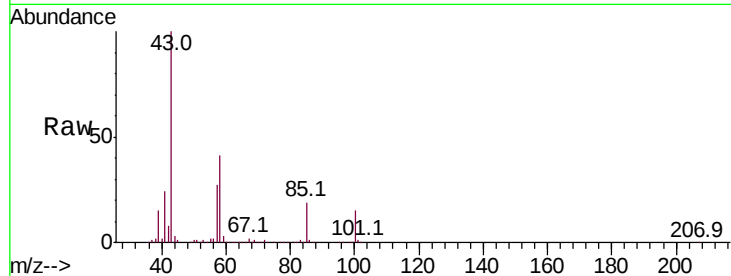


#45  
4-Methyl-2-Pentanone  
Concen: 74.988 ug/l  
RT: 7.45 min Scan# 1977  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleID :  
VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.8  | 20.3  | 60.8  |
| 85      | 19.2  | 15.0  | 22.6  |

Manual Integrations  
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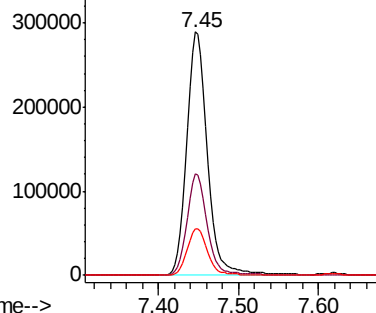


Abundance

Ion 43.00 (42.70 to 43.70): VU0

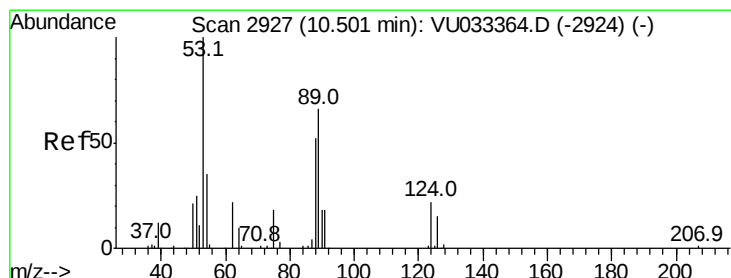
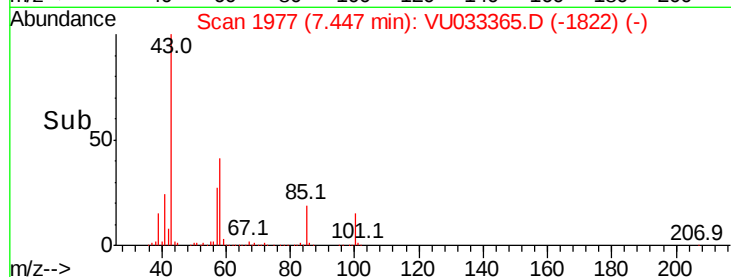
Ion 58.00 (57.70 to 58.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



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7/23/2019 8:55:14 AM



#46  
t-1,4-Dichloro-2-butene  
Concen: 39.072 ug/l m  
RT: 10.50 min Scan# 2927  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 77.9  | 62.9  | 94.3  |
| 89      | 55.3  | 43.0  | 64.4  |
| 88      | 43.2  | 35.0  | 52.4  |

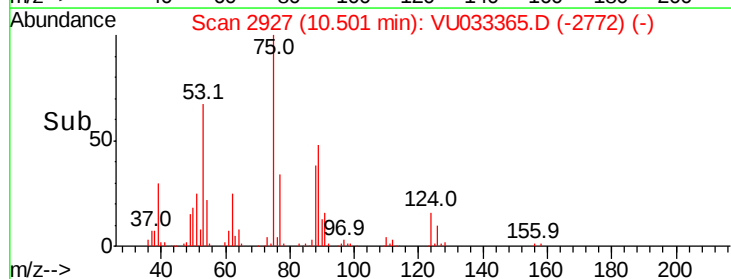
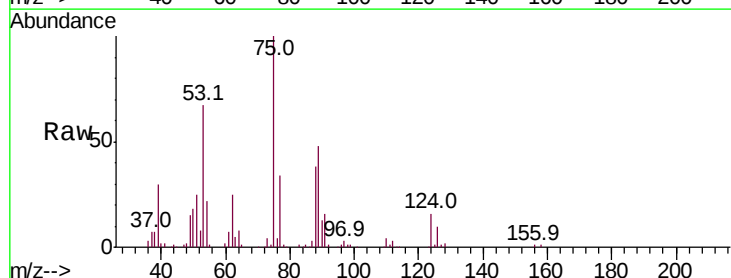
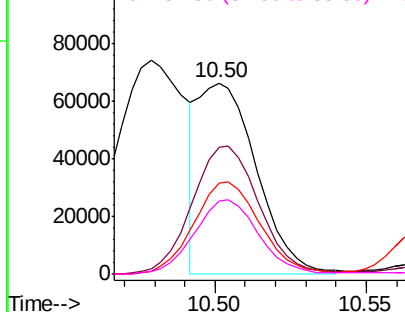
Abundance

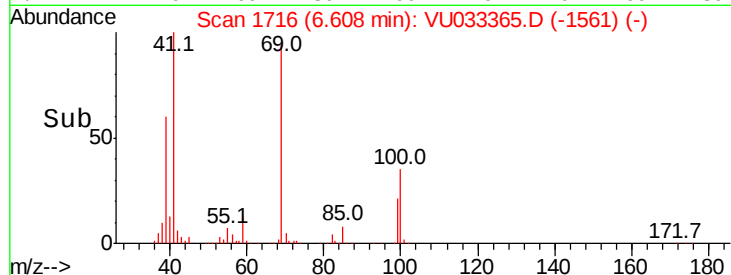
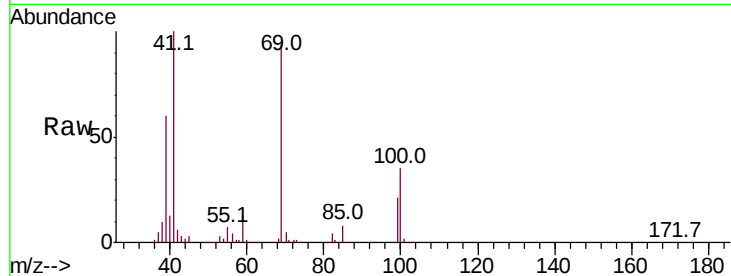
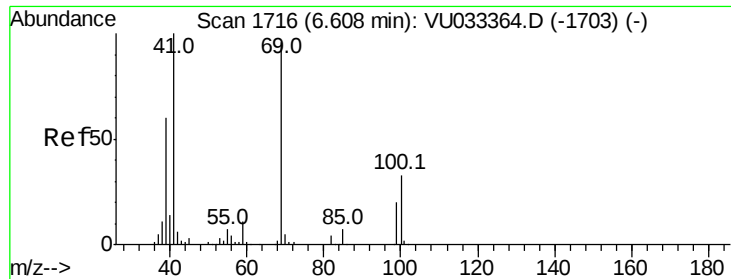
Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.80 (88.50 to 89.50): VU0

Ion 87.80 (87.50 to 88.50): VU0



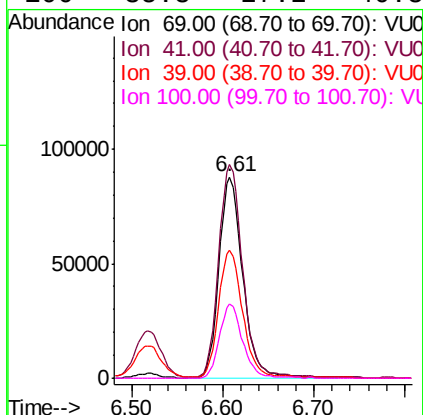


#47  
Methyl methacrylate  
Concen: 34.956 ug/l  
RT: 6.61 min Scan# 1716  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 69      | 100   |       |       |       |       |
| 41      | 105.9 | 0.0   | 208.2 |       |       |
| 39      | 63.1  | 50.6  | 75.8  |       |       |
| 100     | 35.8  | 27.2  | 40.8  |       |       |

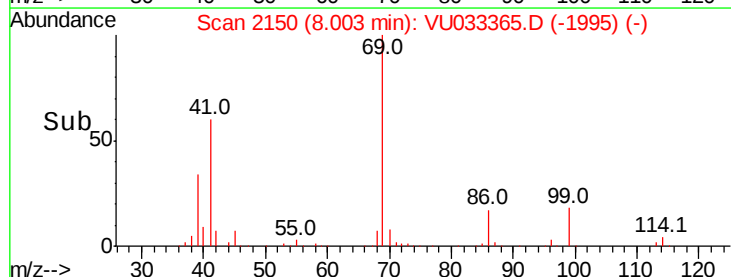
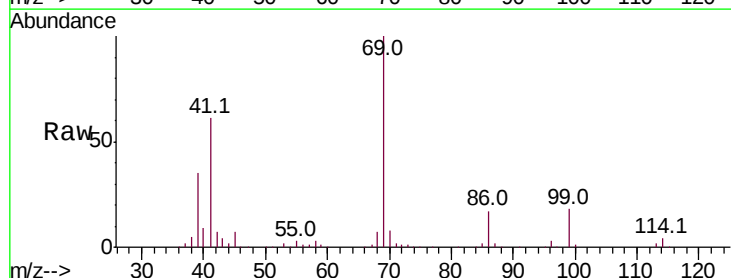
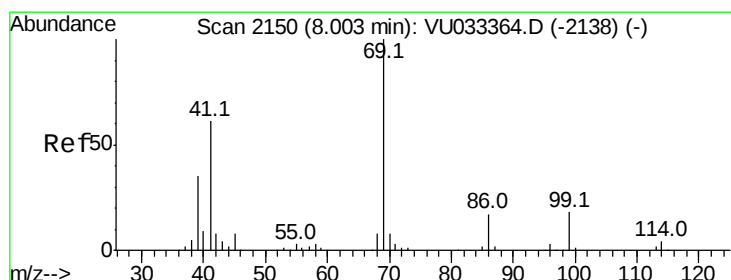
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

Manual Integrations  
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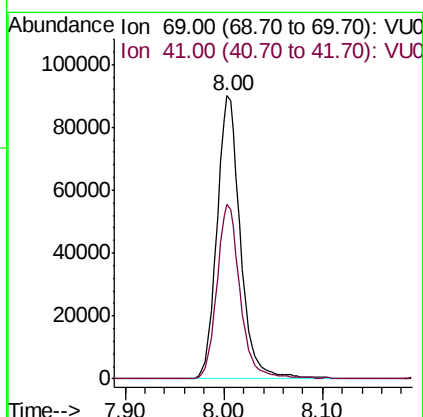
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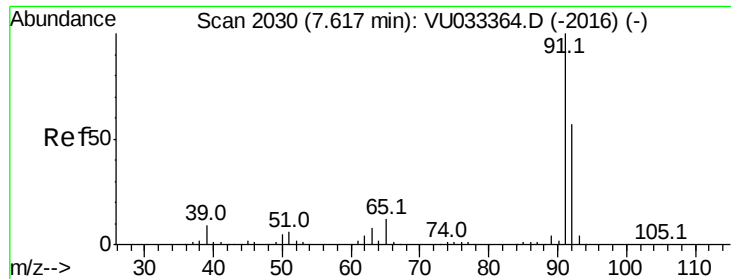
7/23/2019 8:55:14 AM



#48  
Ethyl methacrylate  
Concen: 18.752 ug/l  
RT: 8.00 min Scan# 2150  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 69      | 100  |       |      |       |       |
| 41      | 61.5 | 30.9  | 92.7 |       |       |





#49

Toluene

Concen: 17.129 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

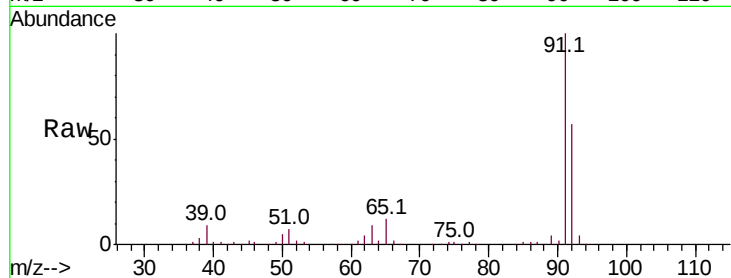
Tot Ion: 92 Resp: 383464

Ion Ratio Lower Upper

92 100

91 176.4 142.1 213.1

Manual Integrations  
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Abundance Ion 92.00 (91.70 to 92.70): VU033364.D (-2016) (-)

Ion 91.00 (90.70 to 91.70): VU033364.D (-2016) (-)

400000

300000

200000

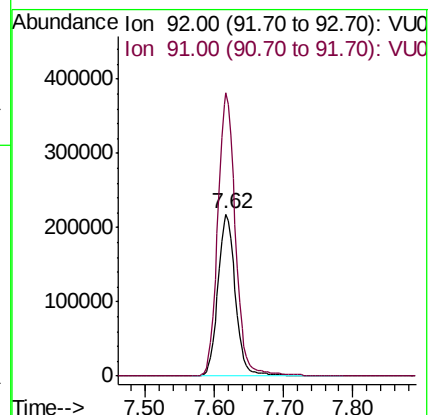
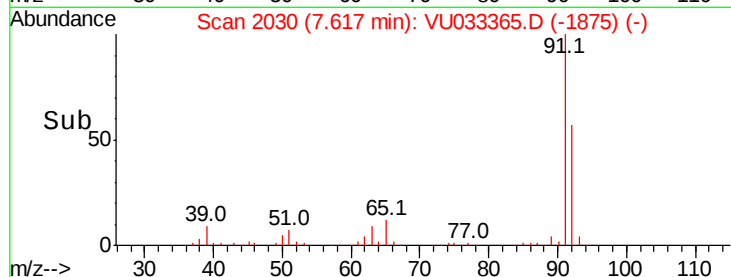
100000

0

7.50 7.60 7.70 7.80

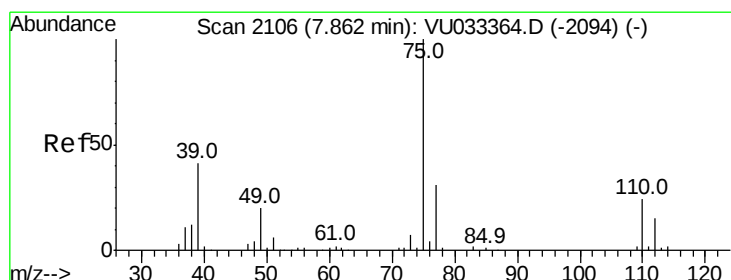
7.62

Time-->



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7/23/2019 8:55:14 AM



#50

t-1,3-Dichloropropene

Concen: 17.178 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033365.D

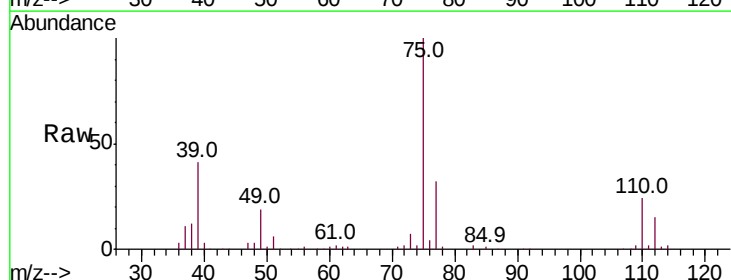
Acq: 22 Jul 2019 21:26

Tgt Ion: 75 Resp: 201512

Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VU033364.D (-2094) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-2094) (-)

100000

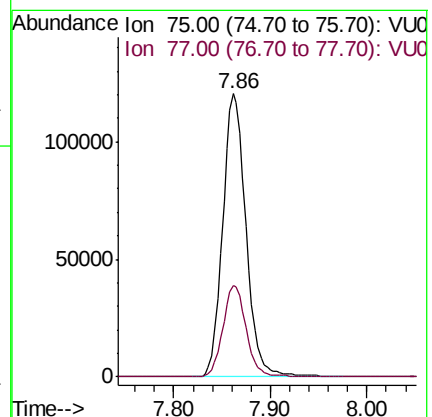
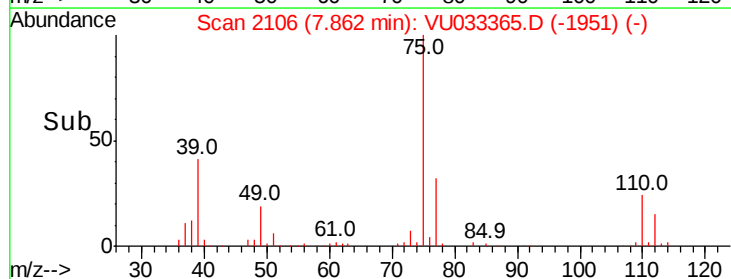
50000

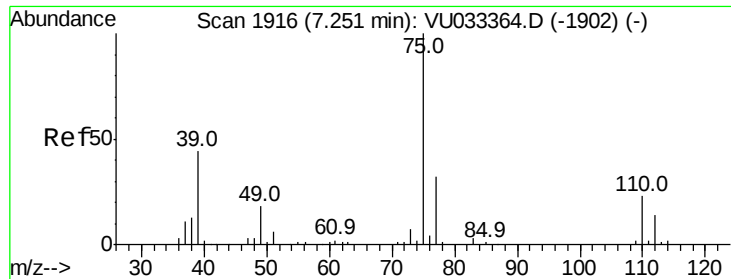
0

7.80 7.90 8.00

7.86

Time-->



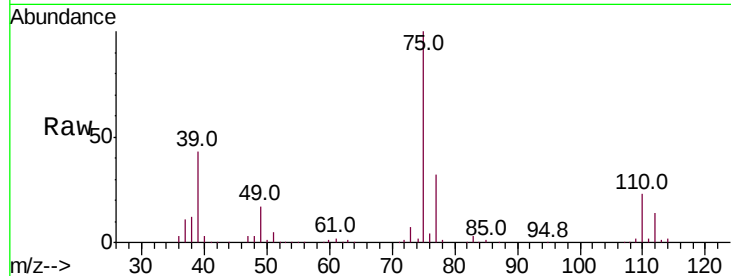


#51  
 cis-1,3-Dichloropropene  
 Concen: 16.323 ug/l  
 RT: 7.25 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 75      | 100   |            |       |
| 77      | 31.7  | 25.8       | 38.8  |
| 39      | 43.3  | 35.2       | 52.8  |

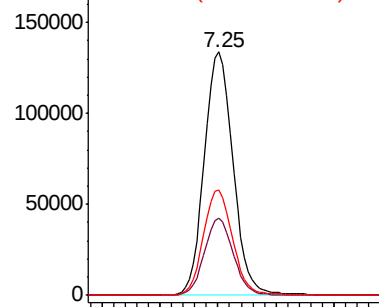
Manual Integrations  
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Abundance Ion 75.00 (74.70 to 75.70): VU033364.D (-1902) (-)

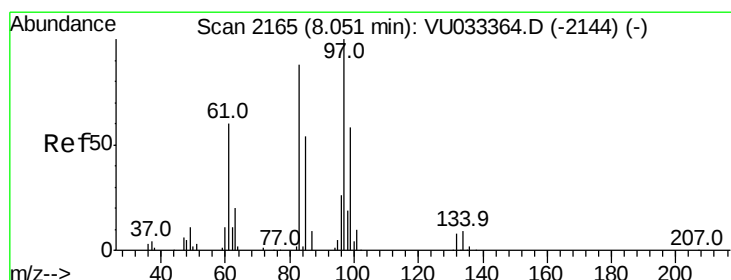
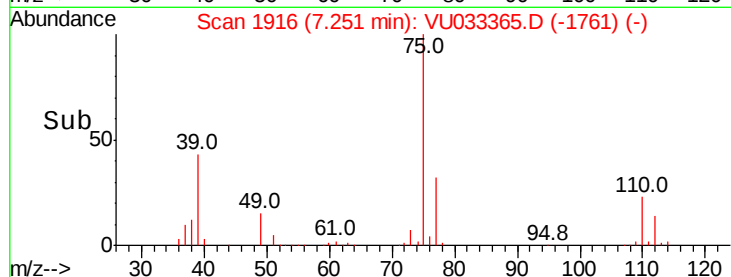
Ion 77.00 (76.70 to 77.70): VU033364.D (-1902) (-)

Ion 39.00 (38.70 to 39.70): VU033364.D (-1902) (-)



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7/23/2019 8:55:14 AM



#52  
 1,1,2-Trichloroethane  
 Concen: 15.590 ug/l  
 RT: 8.05 min Scan# 2164  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

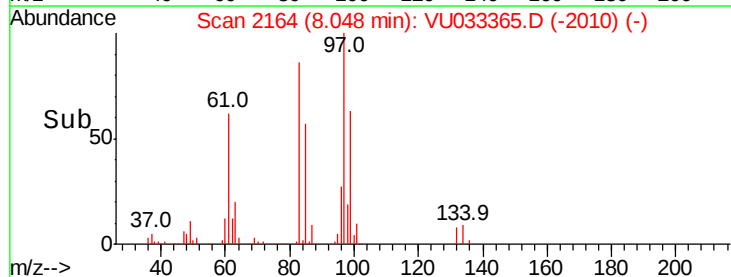
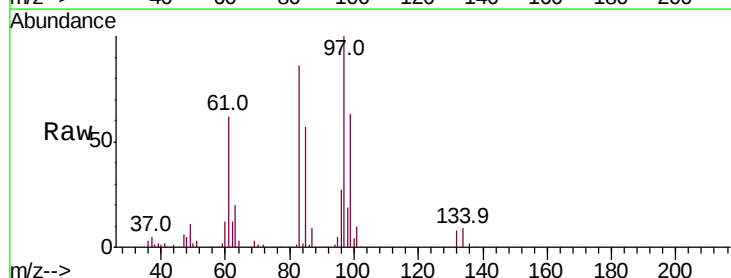
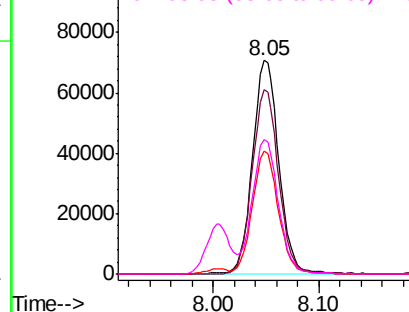
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 97      | 100   |            |       |
| 83      | 86.1  | 70.2       | 105.2 |
| 85      | 57.2  | 43.5       | 65.3  |
| 99      | 62.8  | 47.9       | 71.9  |

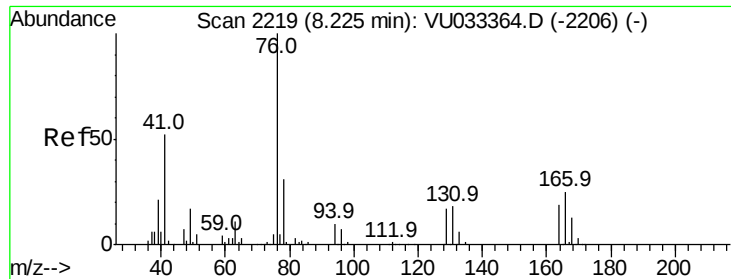
Abundance Ion 97.00 (96.70 to 97.70): VU033364.D (-2144) (-)

Ion 82.95 (82.65 to 83.65): VU033364.D (-2144) (-)

Ion 84.95 (84.65 to 85.65): VU033364.D (-2144) (-)

Ion 98.95 (98.65 to 99.65): VU033364.D (-2144) (-)



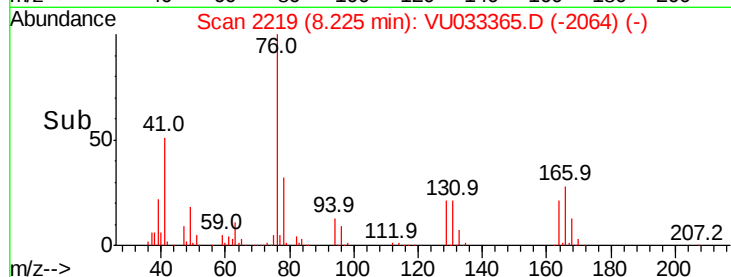
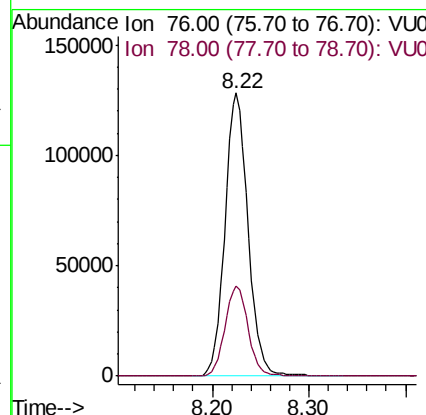
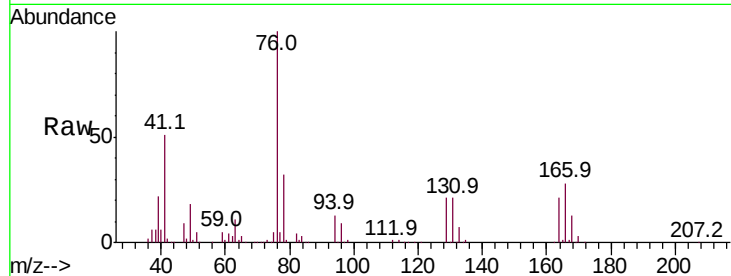


#53  
 1,3-Dichloropropane  
 Concen: 15.503 ug/l  
 RT: 8.22 min Scan# 2219  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDIC015

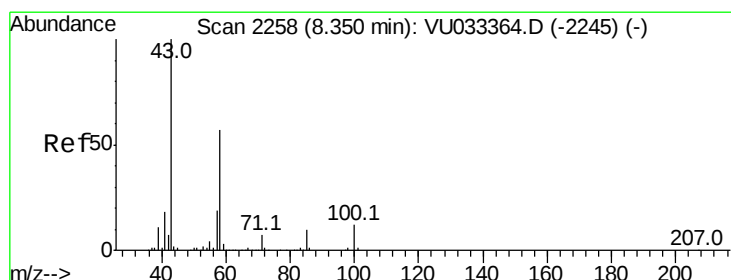
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.0  | 25.7  | 38.5  |

Manual Integrations  
 APPROVED



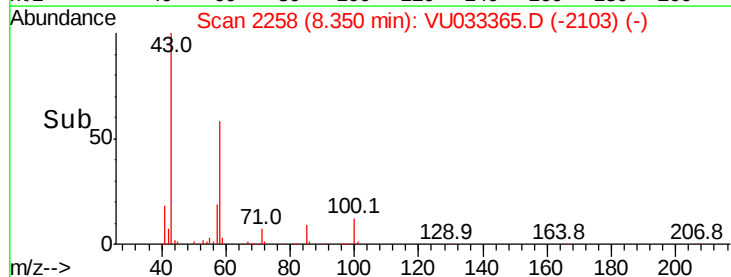
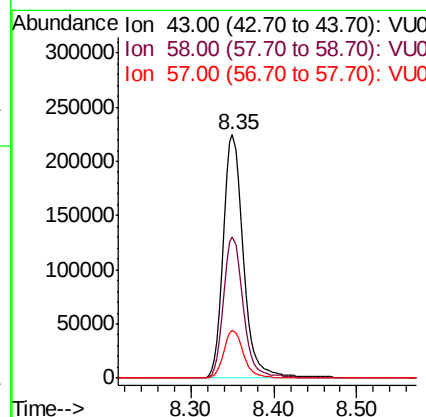
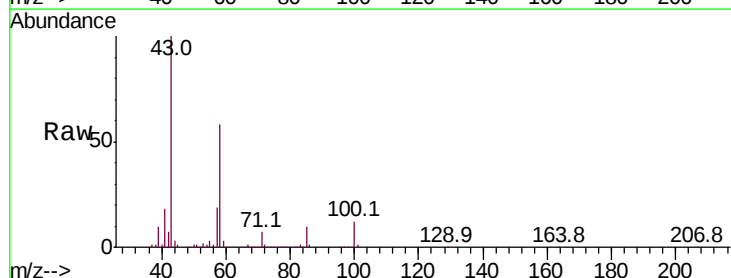
MMDadoda

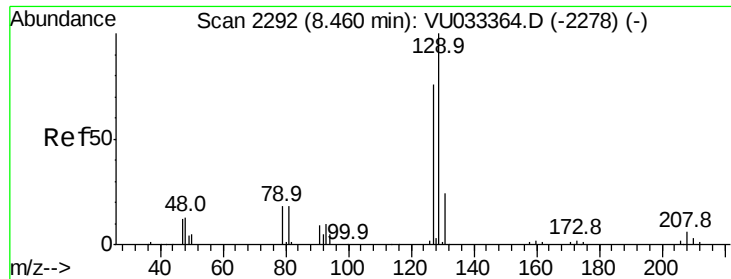
7/23/2019 8:55:14 AM



#54  
 2-Hexanone  
 Concen: 79.402 ug/l  
 RT: 8.35 min Scan# 2258  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 57.0  | 36.0  | 76.0  |
| 57      | 19.3  | 0.0   | 39.4  |





#55

Dibromochloromethane

Concen: 16.573 ug/l

RT: 8.46 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

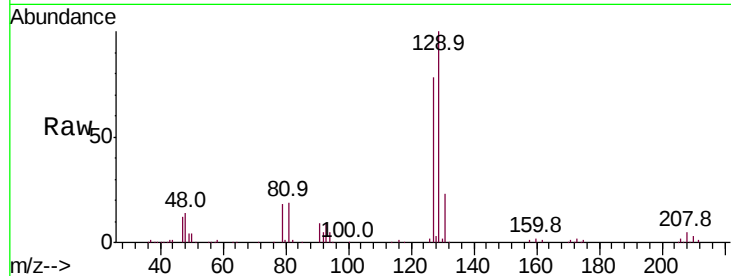
Tot Ion:129 Resp: 147832

Ion Ratio Lower Upper

129 100

127 76.3 60.9 91.3

Manual Integrations  
APPROVED



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.46

100000

80000

60000

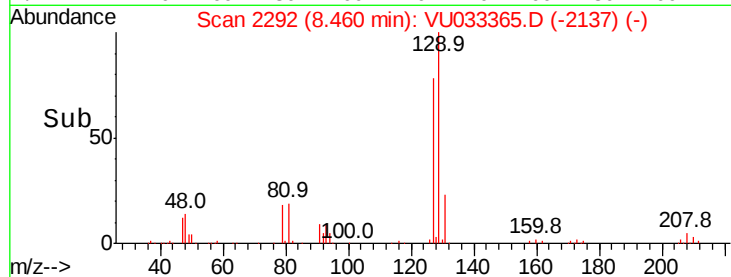
40000

20000

0

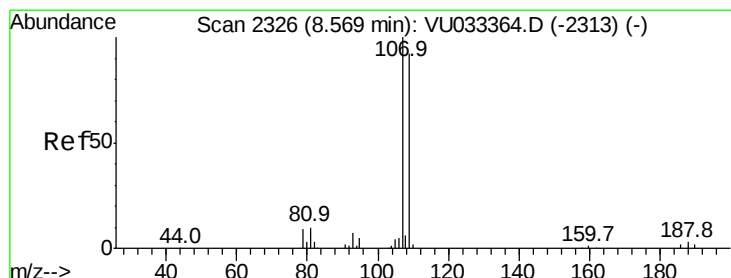
8.35 8.40 8.45 8.50 8.55

Time-->



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7/23/2019 8:55:14 AM



#56

1,2-Dibromoethane

Concen: 16.329 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU033365.D

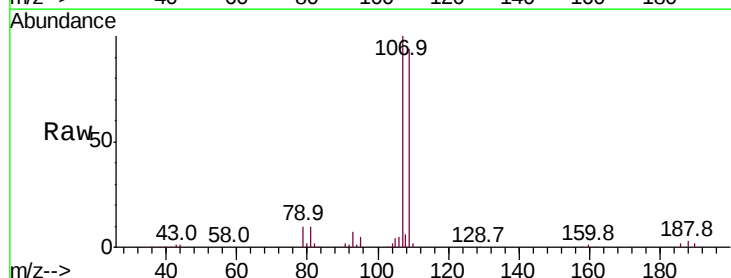
Acq: 22 Jul 2019 21:26

Tgt Ion:107 Resp: 115460

Ion Ratio Lower Upper

107 100

109 93.3 0.0 184.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.57

80000

60000

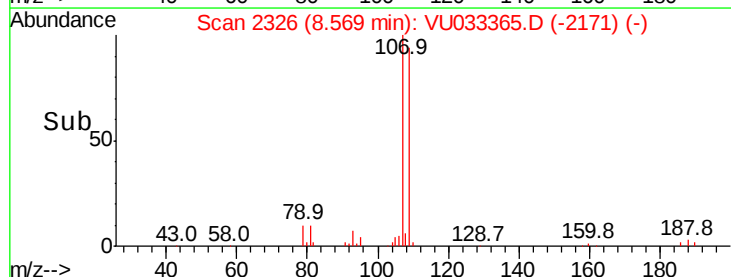
40000

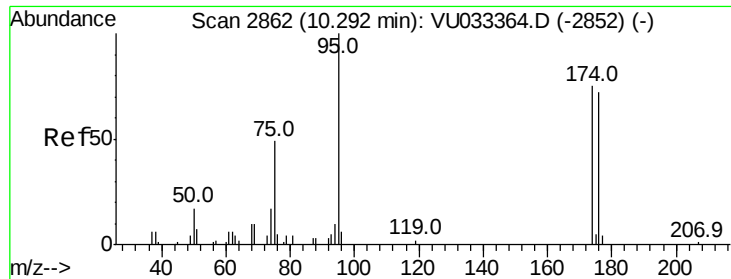
20000

0

8.50 8.55 8.60 8.65 8.70

Time-->



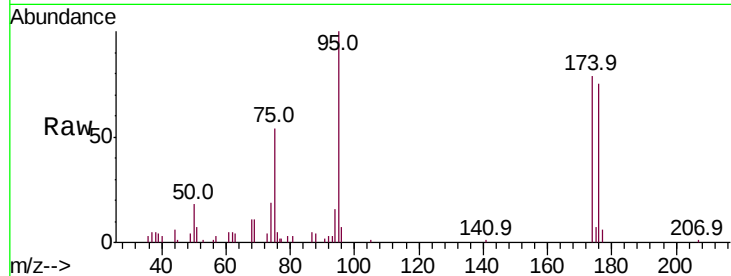


#57  
4-Bromofluorobenzene  
Concen: 1.133 ug/l  
RT: 10.29 min Scan# 2862  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 78.5  | 58.8  | 88.2  |
| 176     | 74.6  | 54.4  | 81.6  |

Manual Integrations  
APPROVED

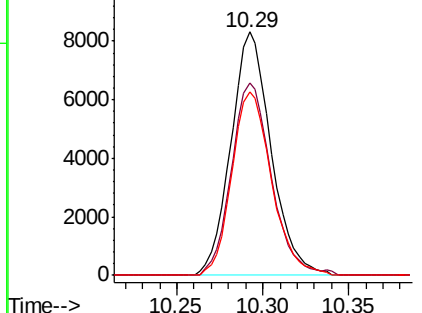
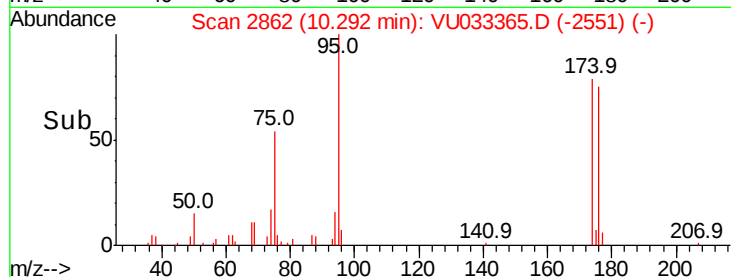


Abundance

Ion 95.00 (94.70 to 95.70): VU033365.D (-2551) (-)

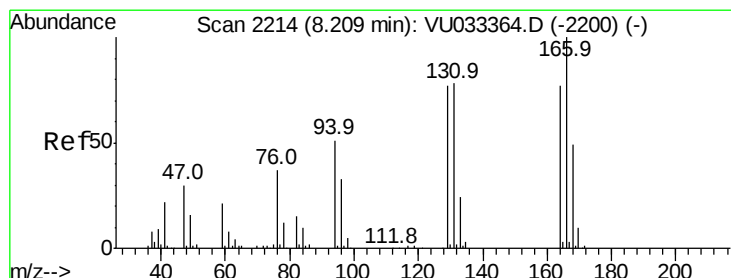
Ion 174.00 (173.70 to 174.70): VU033365.D (-2551) (-)

Ion 176.00 (175.70 to 176.70): VU033365.D (-2551) (-)



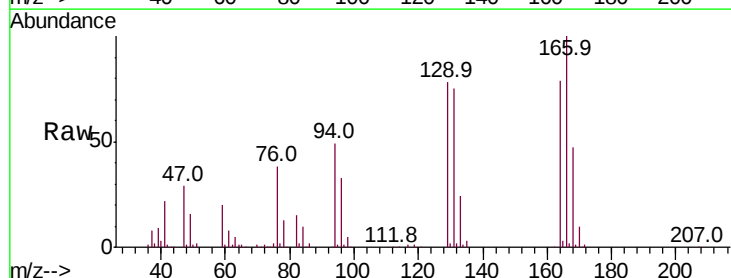
MMDadoda

7/23/2019 8:55:14 AM



#58  
Tetrachloroethene  
Concen: 14.842 ug/l  
RT: 8.21 min Scan# 2214  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.6 | 103.8 | 155.6 |
| 129     | 99.1  | 79.7  | 119.5 |
| 131     | 95.3  | 80.5  | 120.7 |



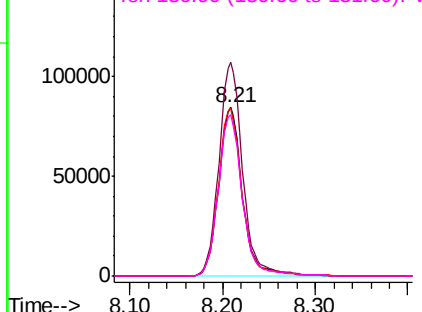
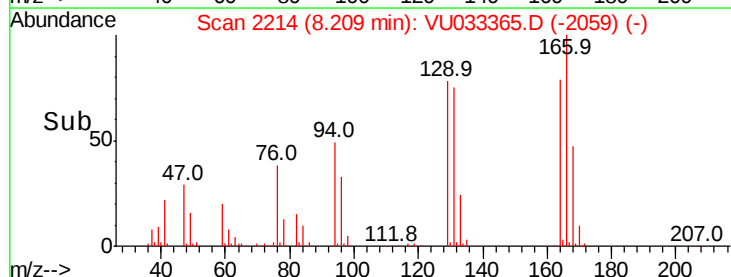
Abundance

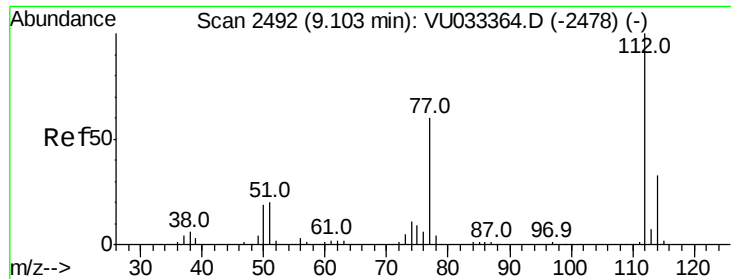
Ion 163.85 (163.55 to 164.55): VU033365.D (-2059) (-)

Ion 165.80 (165.50 to 166.50): VU033365.D (-2059) (-)

Ion 128.90 (128.60 to 129.60): VU033365.D (-2059) (-)

Ion 130.90 (130.60 to 131.60): VU033365.D (-2059) (-)



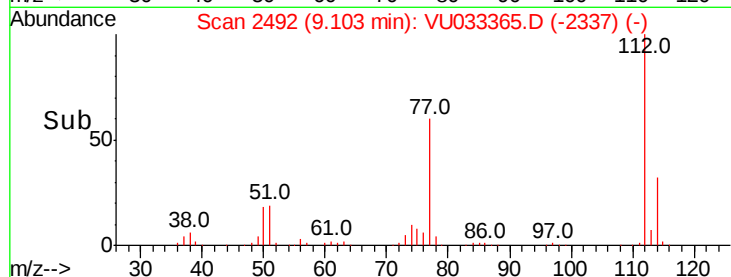
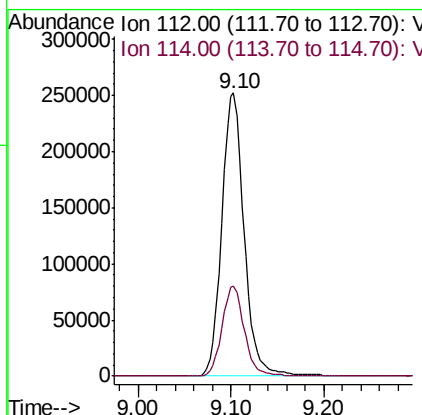
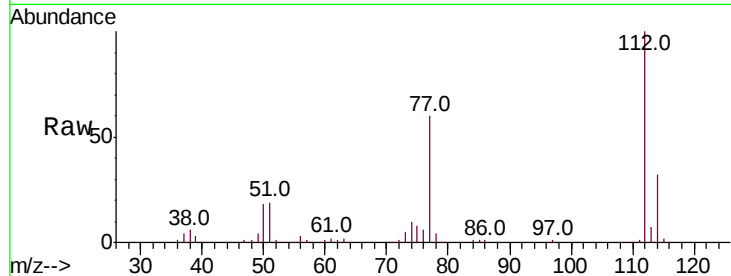


#59  
Chlorobenzene  
Concen: 17.685 ug/l  
RT: 9.10 min Scan# 2492  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

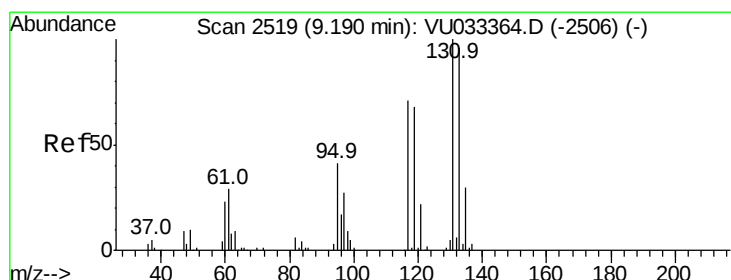
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.9  | 26.4  | 39.6  |

Manual Integrations  
APPROVED



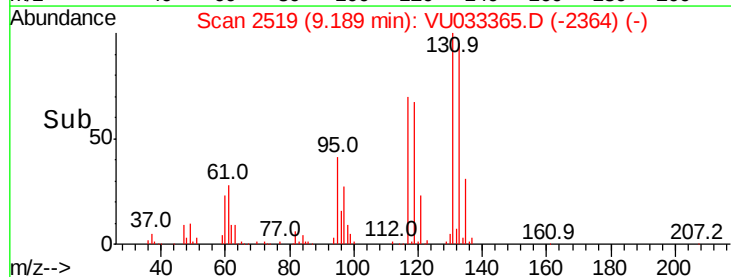
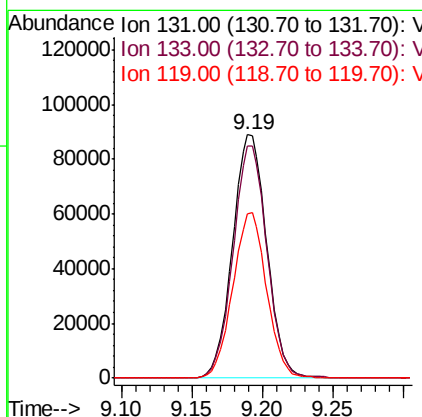
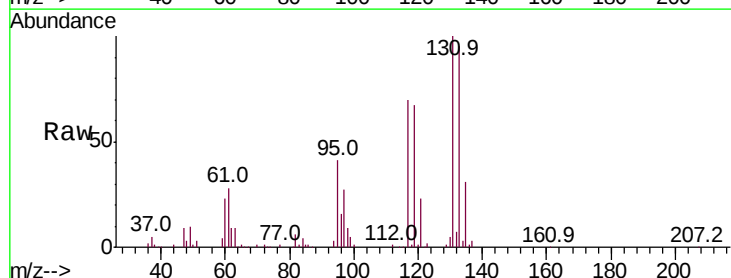
MMDadoda

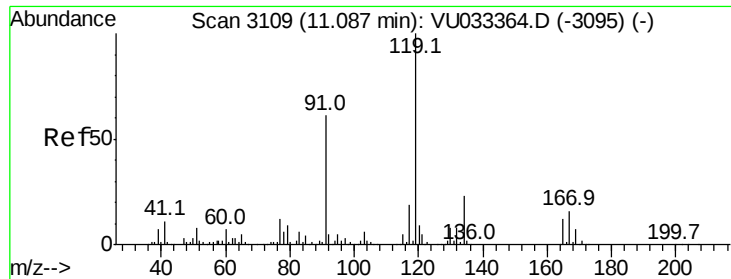
7/23/2019 8:55:14 AM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 16.326 ug/l  
RT: 9.19 min Scan# 2519  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 94.9  | 76.2  | 114.4 |
| 119     | 67.2  | 54.9  | 82.3  |



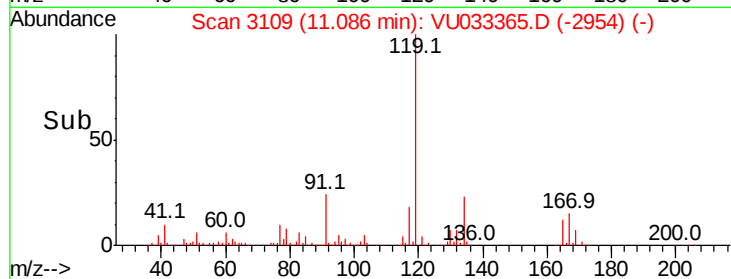
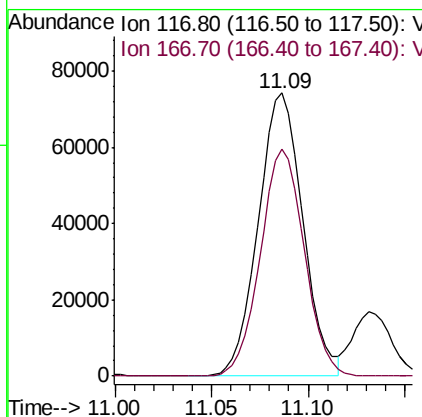
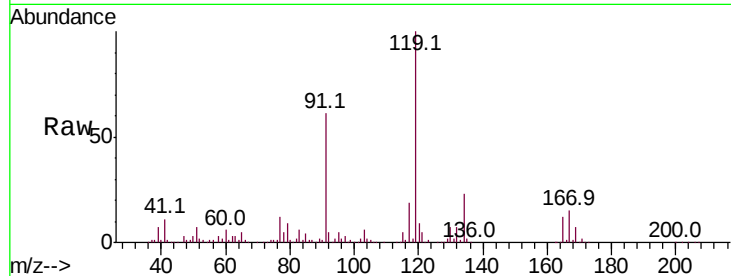


#61  
 Pentachloroethane  
 Concen: 17.622 ug/l  
 RT: 11.09 min Scan# 3109  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

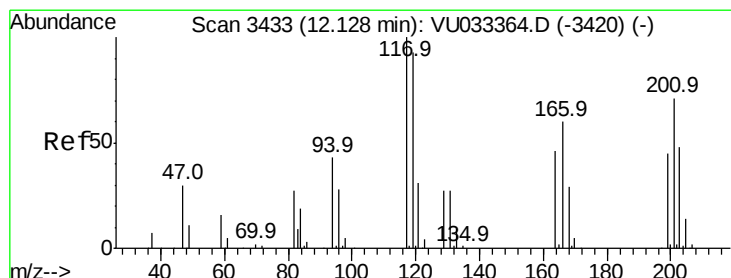
Tot Ion:117 Resp: 119032  
 Ion Ratio Lower Upper  
 117 100  
 167 79.1 63.4 95.0

Manual Integrations  
 APPROVED



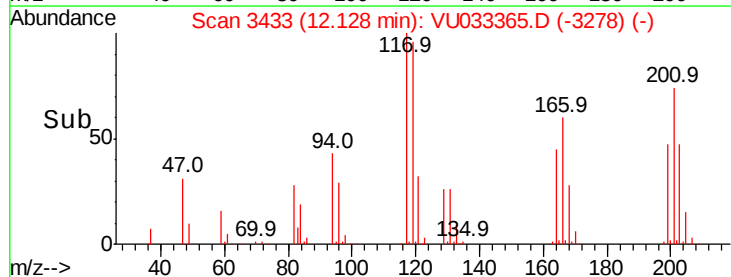
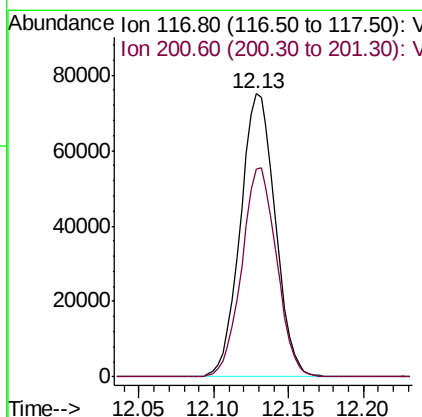
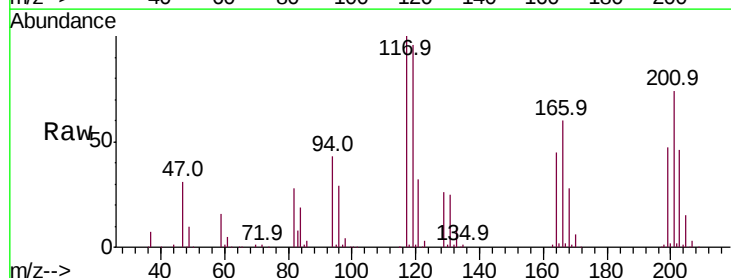
MMDadoda

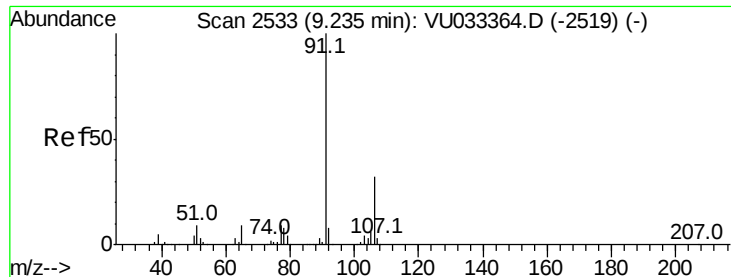
7/23/2019 8:55:14 AM



#62  
 Hexachloroethane  
 Concen: 18.500 ug/l  
 RT: 12.13 min Scan# 3433  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Tgt Ion:117 Resp: 122092  
 Ion Ratio Lower Upper  
 117 100  
 201 73.7 57.9 86.9





#63

Ethyl Benzene

Concen: 19.161 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

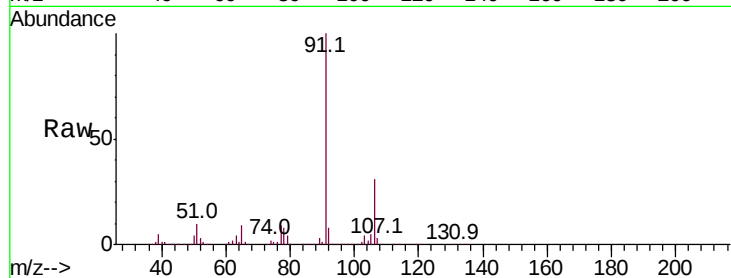
Tot Ion: 91 Resp: 743786

Ion Ratio Lower Upper

91 100

106 31.3 25.4 38.2

Manual Integrations  
APPROVED



Abundance Ion 91.00 (90.70 to 91.70): VU033364.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033365.D (-2378) (-)

800000

600000

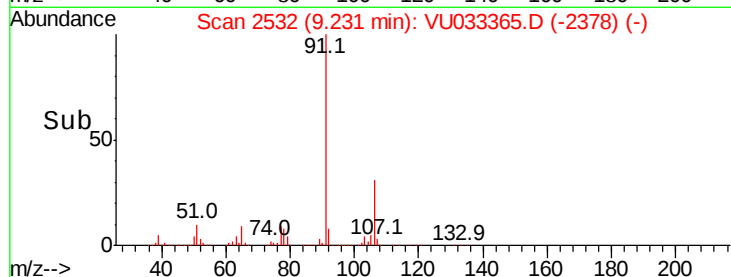
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#64

m/p-Xylenes

Concen: 40.376 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033365.D

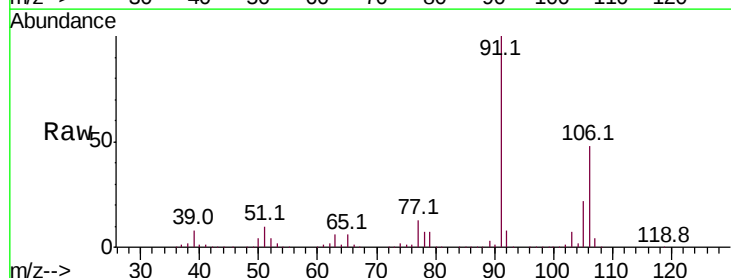
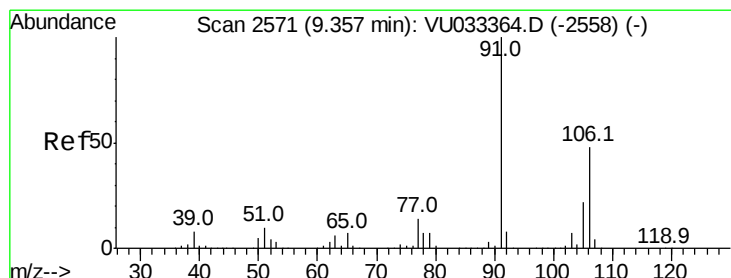
Acq: 22 Jul 2019 21:26

Tgt Ion: 106 Resp: 591663

Ion Ratio Lower Upper

106 100

91 208.0 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): VU033365.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VU033364.D (-2558) (-)

800000

600000

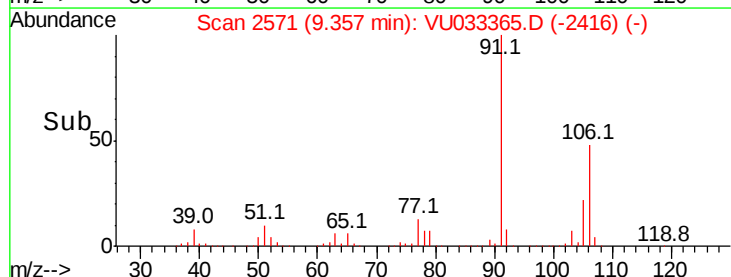
400000

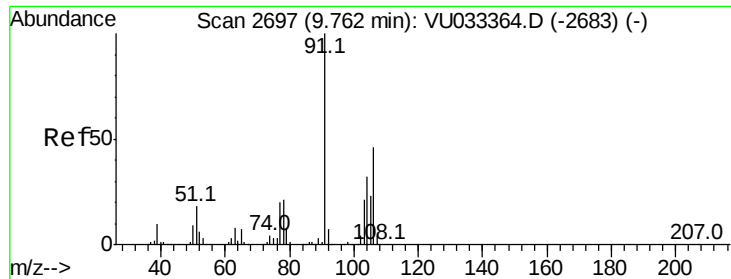
200000

0

9.30 9.40 9.50

Time-->





#65

o-Xylene

Concen: 19.589 ug/l

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

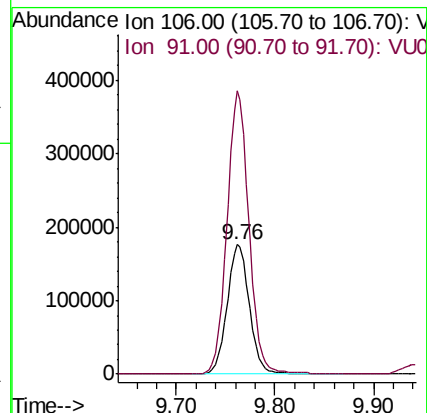
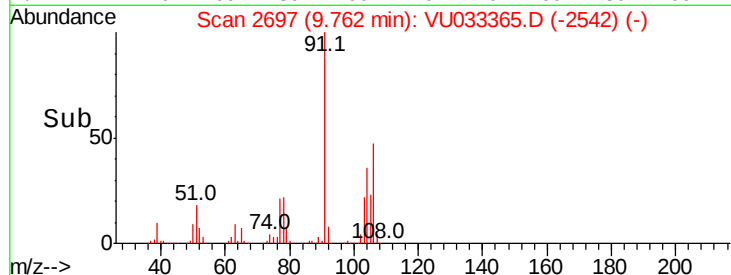
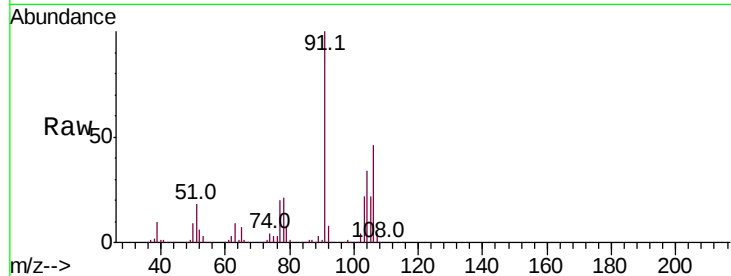
Tot Ion:106 Resp: 279699

Ion Ratio Lower Upper

106 100

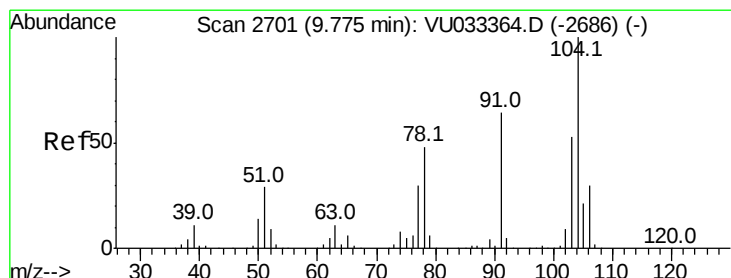
91 215.9 108.5 325.3

Manual Integrations  
APPROVED



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7/23/2019 8:55:14 AM



#66

Styrene

Concen: 20.641 ug/l

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

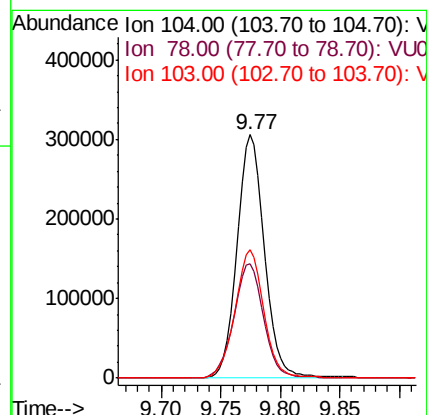
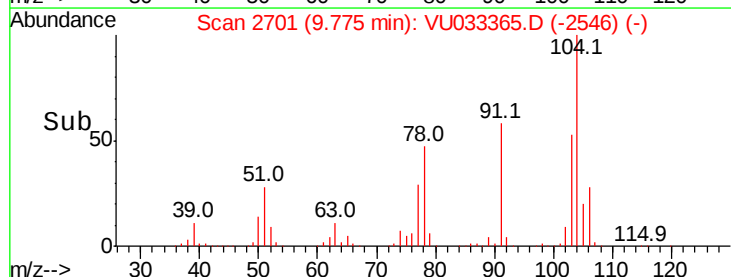
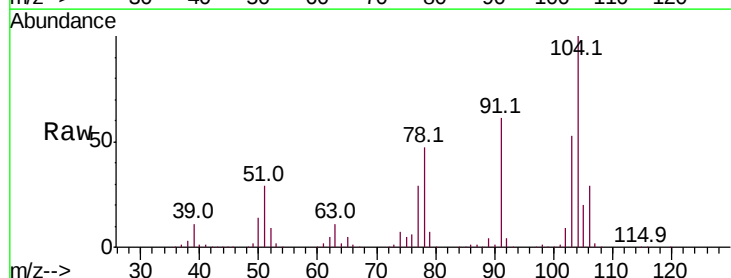
Tgt Ion:104 Resp: 489862

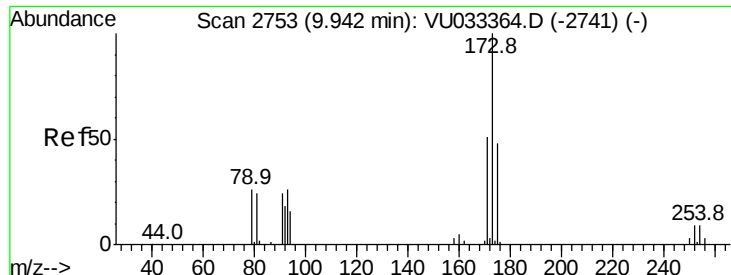
Ion Ratio Lower Upper

104 100

78 51.2 41.2 61.8

103 55.6 44.7 67.1



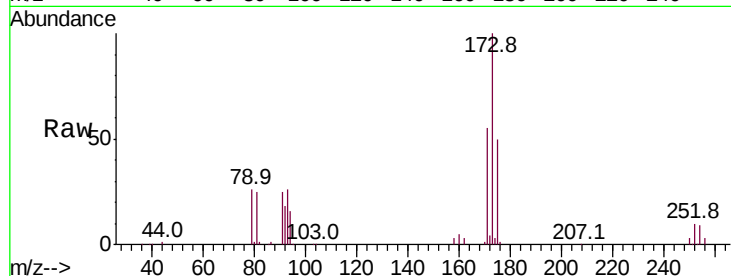


#67  
Bromoform  
Concen: 16.721 ug/l  
RT: 9.94 min Scan# 2753  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

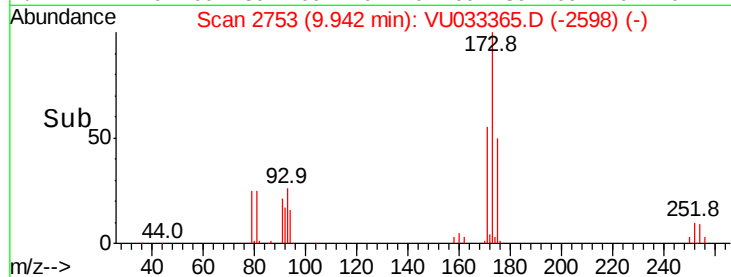
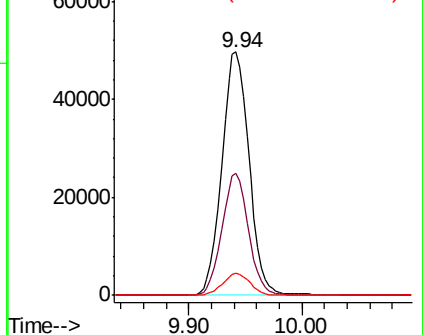
Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.8  | 38.6  | 58.0  |
| 254     | 9.0   | 6.8   | 10.2  |

Manual Integrations  
APPROVED

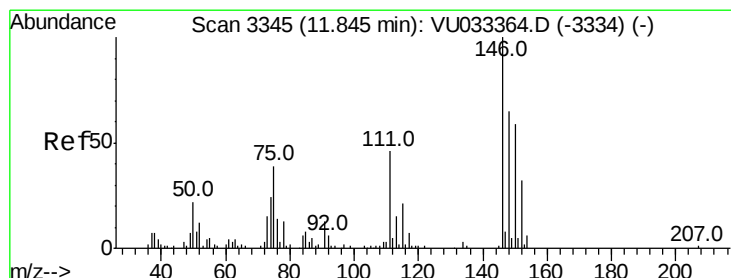


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



MMDadoda

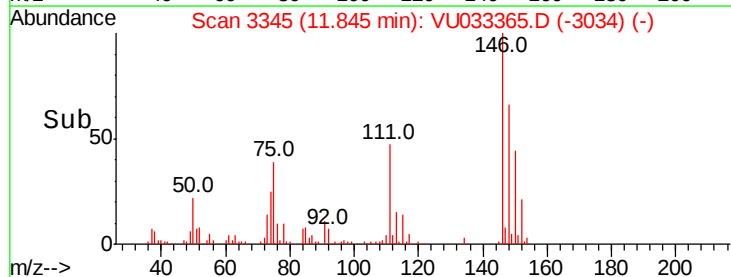
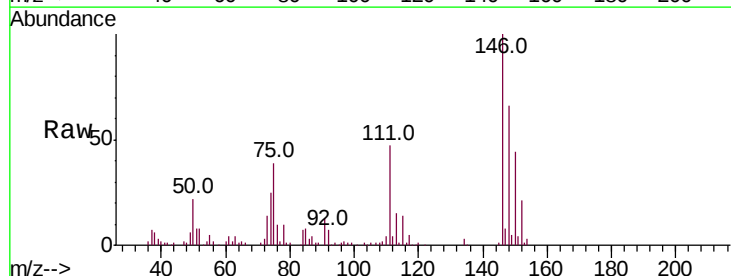
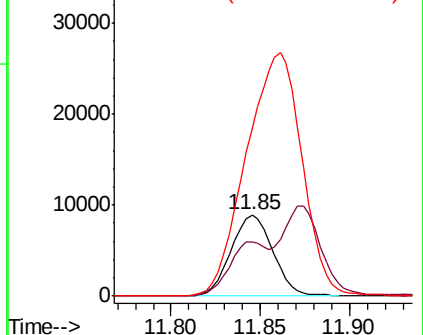
7/23/2019 8:55:14 AM

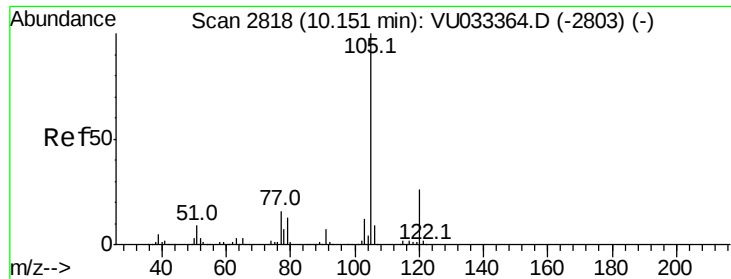


#68  
1,2-Dichlorobenzene-d4  
Concen: 1.298 ug/l  
RT: 11.85 min Scan# 3345  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.6  | 0.0   | 123.2 |
| 150     | 0.0   | 0.0   | 648.4 |

Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 19.637 ug/l

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

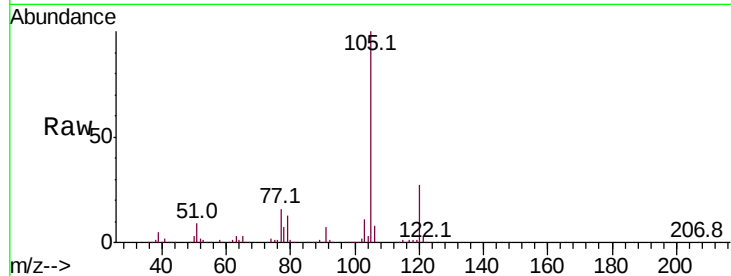
Tot Ion:105 Resp: 730600

Ion Ratio Lower Upper

105 100

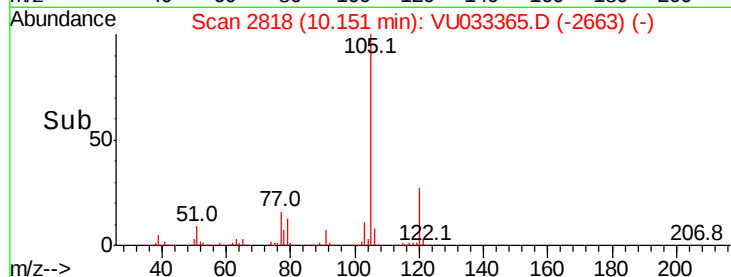
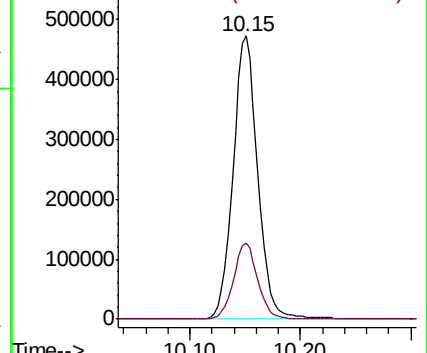
120 26.5 13.4 40.1

Manual Integrations  
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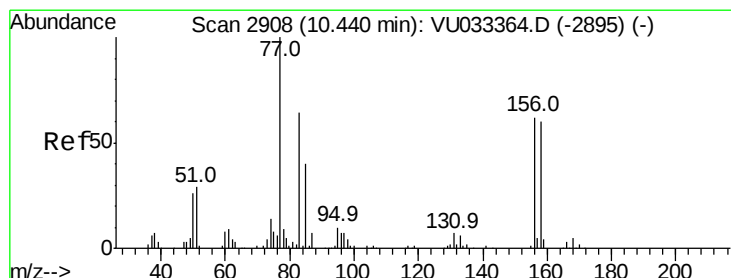
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



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7/23/2019 8:55:14 AM



#70

1,1,2,2-Tetrachloroethane

Concen: 15.869 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

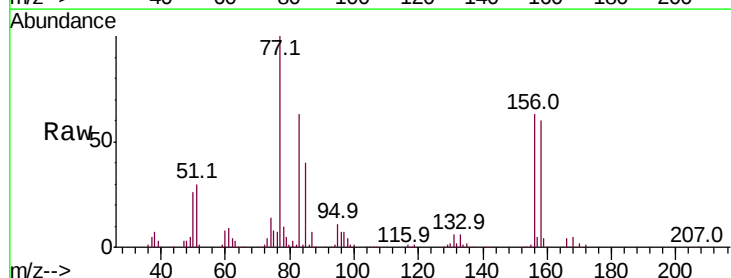
Tgt Ion: 83 Resp: 161591

Ion Ratio Lower Upper

83 100

131 10.1 8.0 12.0

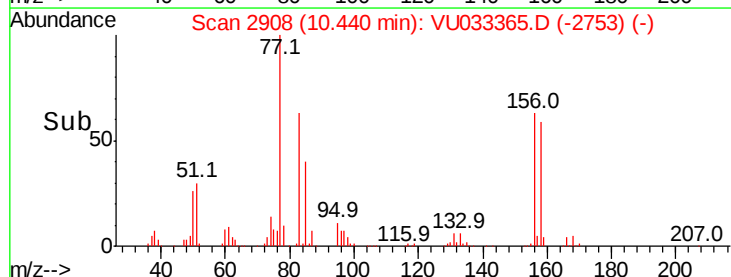
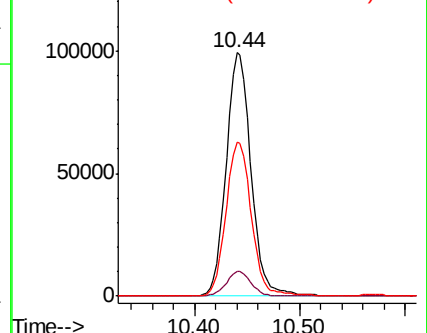
85 65.0 51.8 77.8

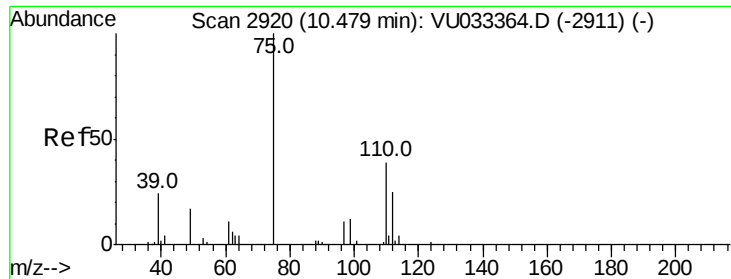


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0



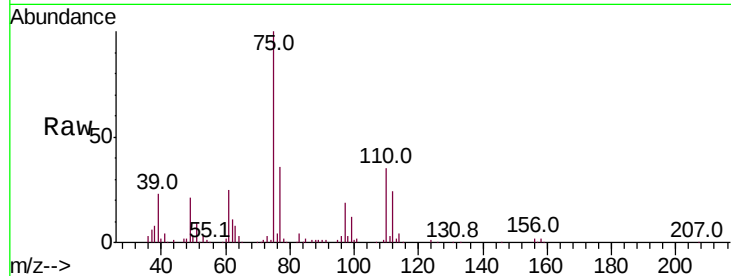


#71  
 1,2,3-Trichloropropane  
 Concen: 16.174 ug/l m  
 RT: 10.48 min Scan# 2920  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 7.8   | 0.0   | 18.2  |
| 110     | 34.7  | 0.0   | 71.4  |
| 97      | 18.4  | 0.0   | 37.8  |

Manual Integrations  
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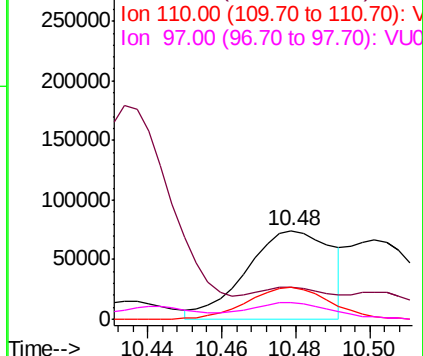
Abundance

Ion 75.00 (74.70 to 75.70): VU033364.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-2911) (-)

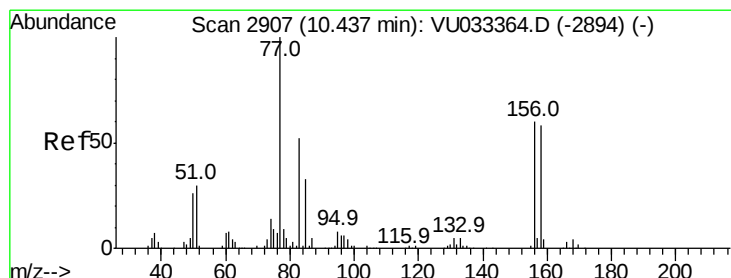
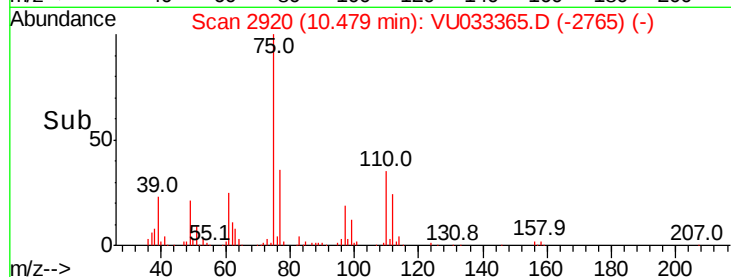
Ion 110.00 (109.70 to 110.70): VU033364.D (-2911) (-)

Ion 97.00 (96.70 to 97.70): VU033364.D (-2911) (-)



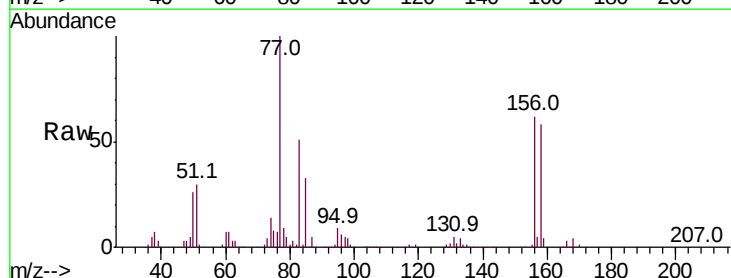
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7/23/2019 8:55:14 AM



#72  
 Bromobenzene  
 Concen: 18.573 ug/l  
 RT: 10.44 min Scan# 2907  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 163.1 | 0.0   | 324.4 |
| 158     | 96.9  | 0.0   | 192.4 |

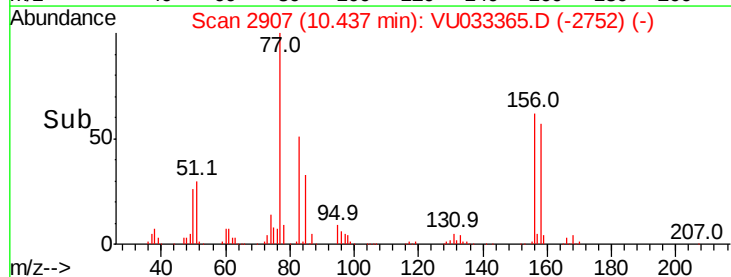
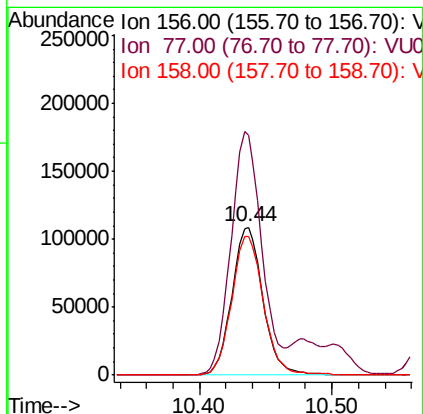


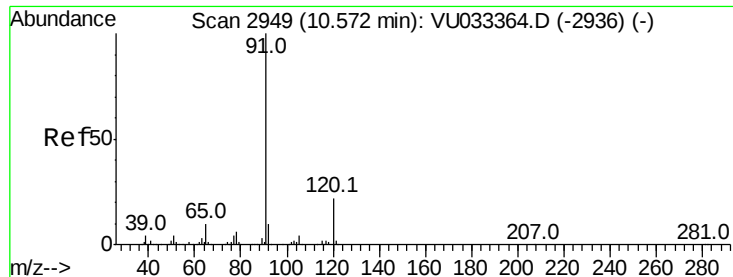
Abundance

Ion 156.00 (155.70 to 156.70): VU033364.D (-2894) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-2894) (-)

Ion 158.00 (157.70 to 158.70): VU033364.D (-2894) (-)





#73

n-propylbenzene

Concen: 21.580 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

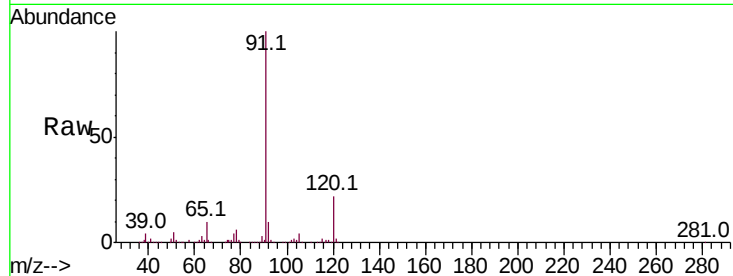
Tot Ion:120 Resp: 211020

Ion Ratio Lower Upper

120 100

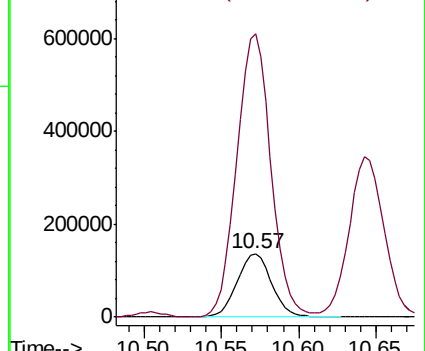
91 441.5 355.1 532.7

Manual Integrations  
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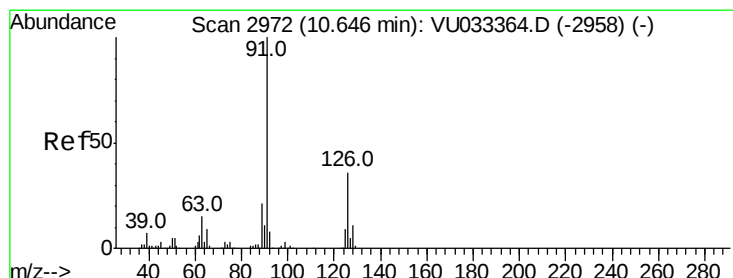
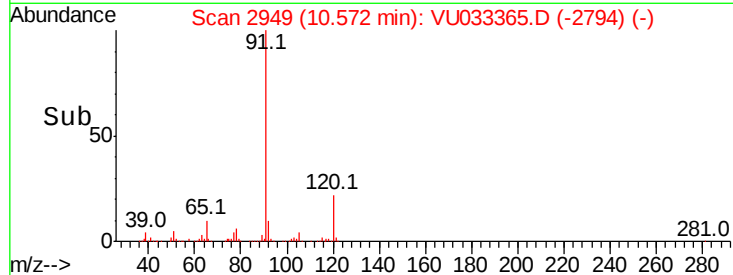
Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



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7/23/2019 8:55:14 AM



#74

2-Chlorotoluene

Concen: 19.665 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. -0.00 min

Lab File: VU033365.D

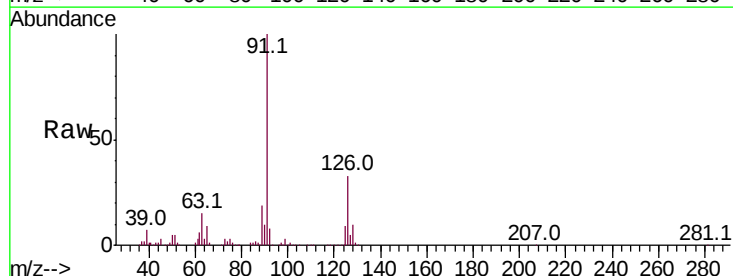
Acq: 22 Jul 2019 21:26

Tgt Ion:126 Resp: 182462

Ion Ratio Lower Upper

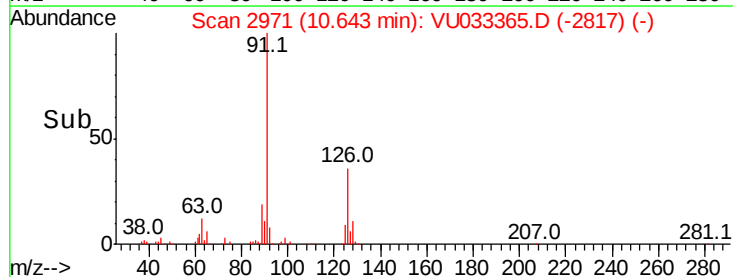
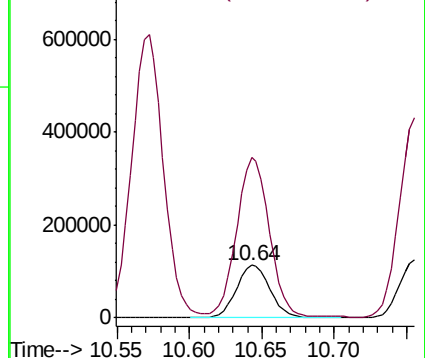
126 100

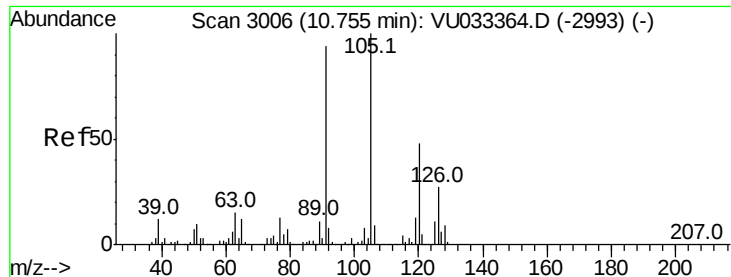
91 294.0 0.0 598.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 20.715 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC015

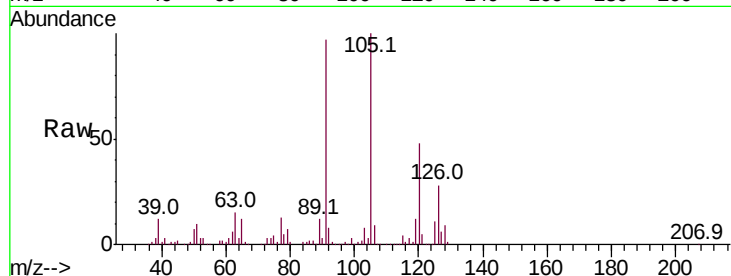
Tot Ion:105 Resp: 662827

Ion Ratio Lower Upper

105 100

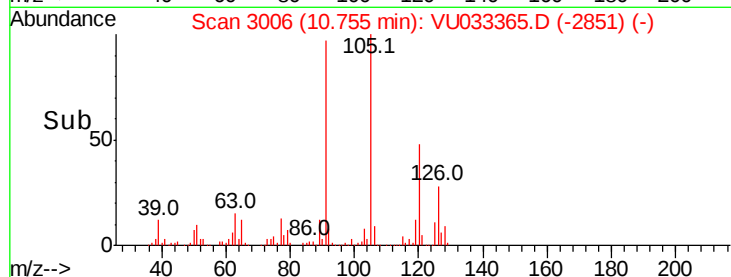
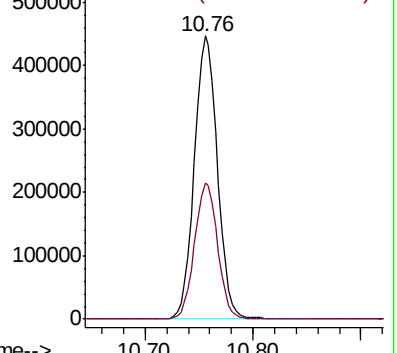
120 48.3 38.2 57.4

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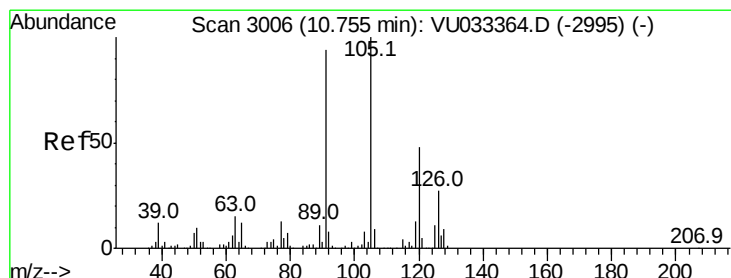
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



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7/23/2019 8:55:14 AM



#76

4-Chlorotoluene

Concen: 21.036 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033365.D

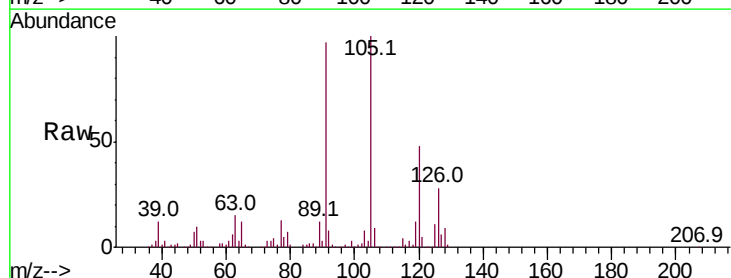
Acq: 22 Jul 2019 21:26

Tgt Ion:126 Resp: 191937

Ion Ratio Lower Upper

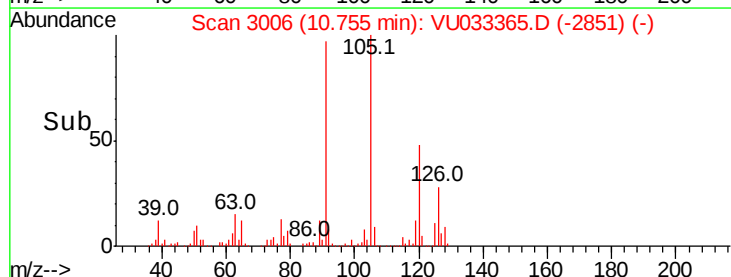
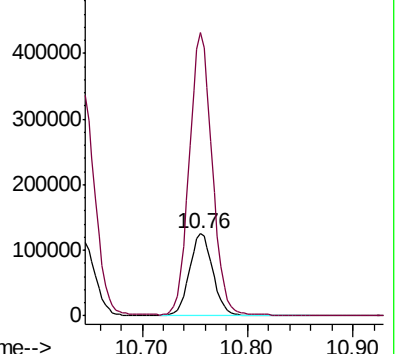
126 100

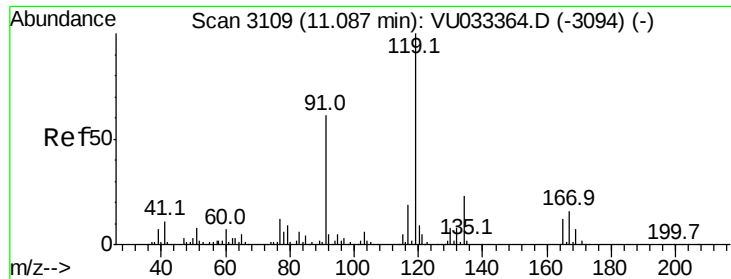
91 339.7 0.0 681.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 20.400 ug/l

RT: 11.08 min Scan# 3108

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

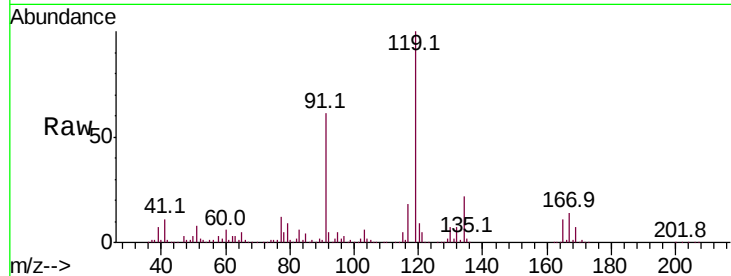
MSVOA\_U

ClientSampleId :

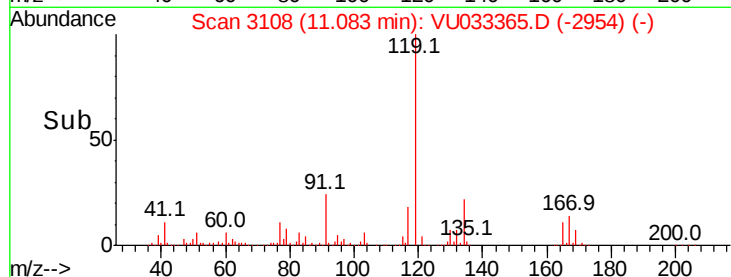
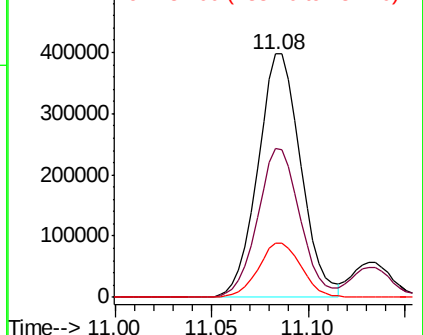
VSTDIC015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 613470 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 91        | 60.0  | 30.4  | 91.3   |
| 134       | 22.6  | 18.5  | 27.7   |

Manual Integrations  
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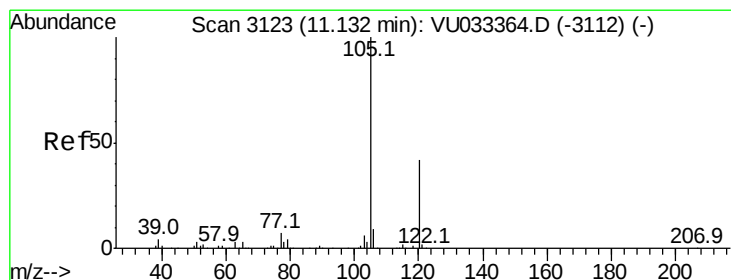


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V



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#78

1,2,4-Trimethylbenzene

Concen: 21.050 ug/l

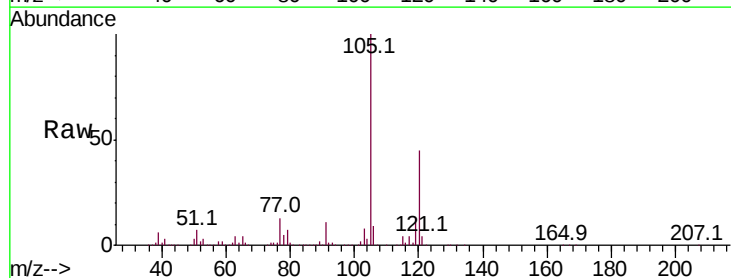
RT: 11.13 min Scan# 3123

Delta R.T. -0.00 min

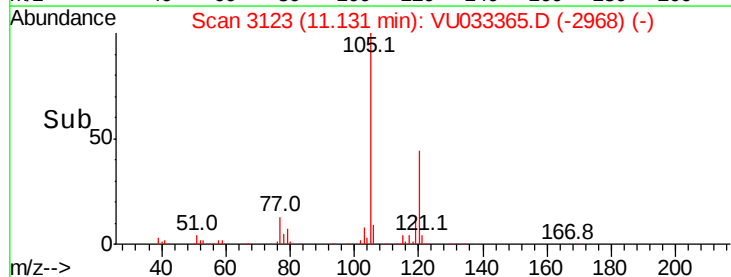
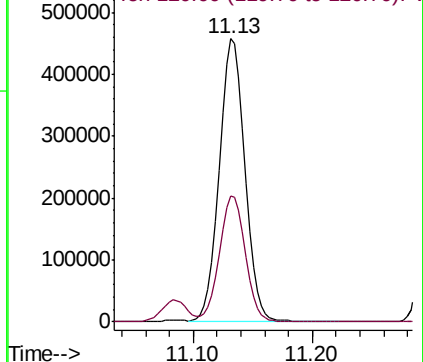
Lab File: VU033365.D

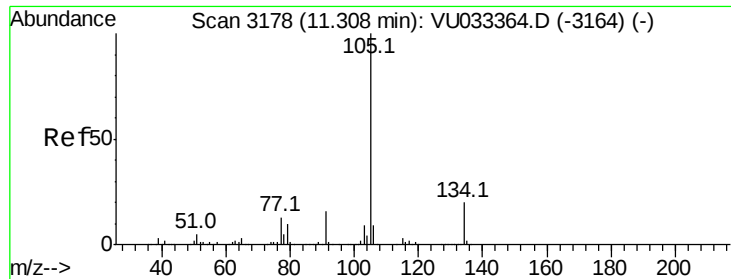
Acq: 22 Jul 2019 21:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 682798 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 45.0  | 22.5  | 67.5   |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V



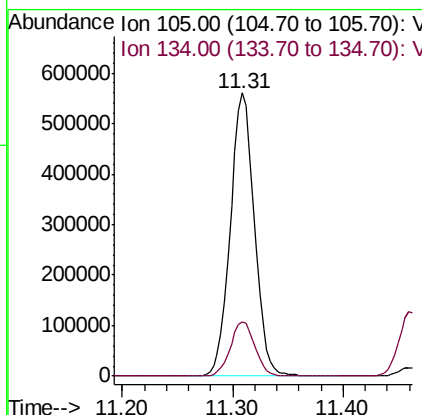
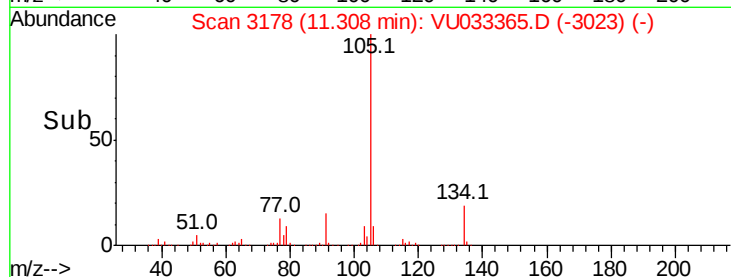
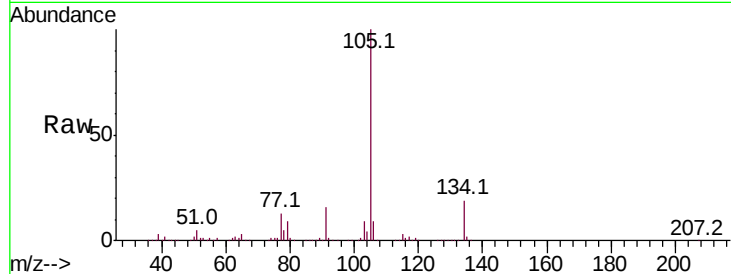


#79  
 sec-Butylbenzene  
 Concen: 20.669 ug/l  
 RT: 11.31 min Scan# 3178  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDIC015

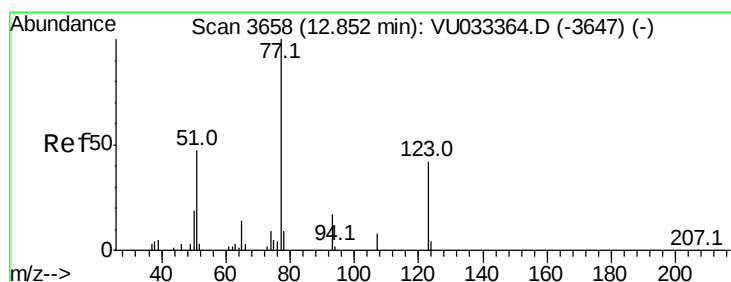
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 19.6  | 15.5  | 23.3  |

Manual Integrations  
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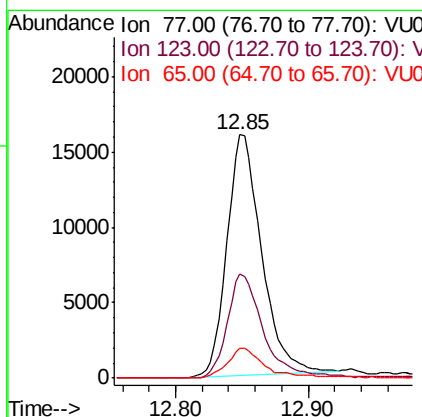
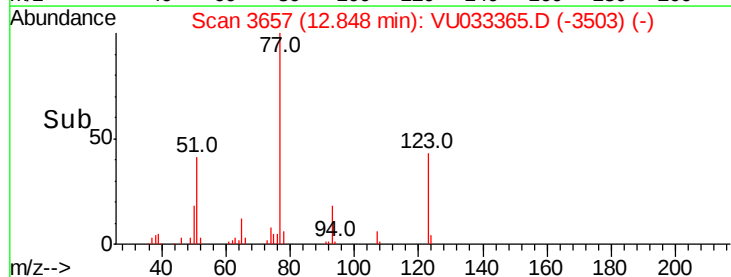
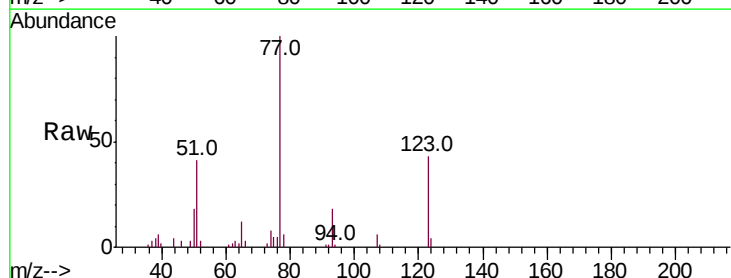
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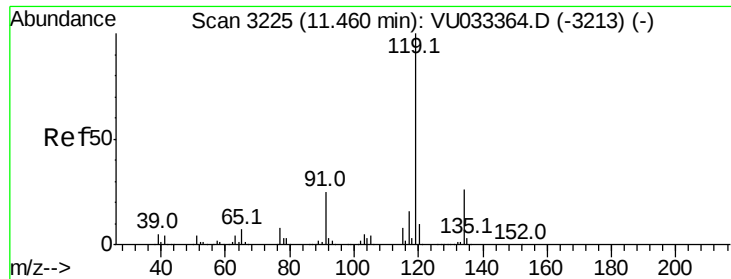
7/23/2019 8:55:14 AM



#80  
 Nitrobenzene  
 Concen: 114.719 ug/l  
 RT: 12.85 min Scan# 3657  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 44.9  | 19.3  | 68.3  |
| 65      | 12.1  | 10.1  | 12.9  |



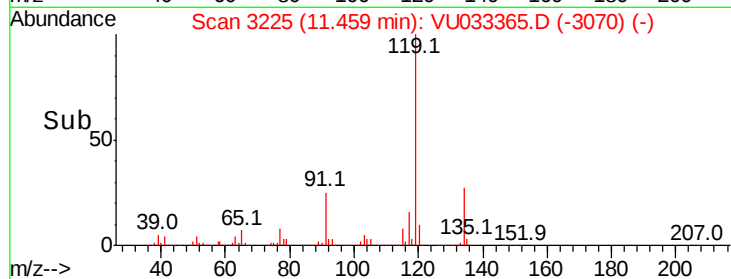
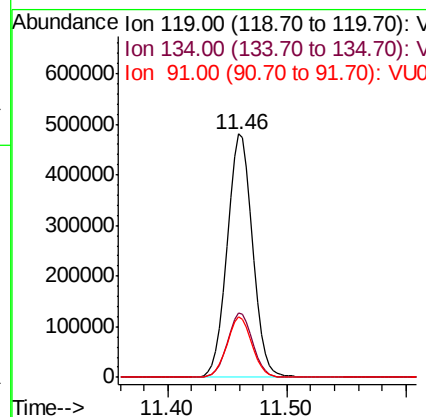
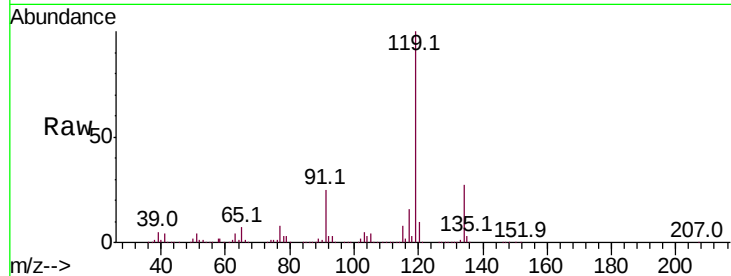


#81  
p-Isopropyltoluene  
Concen: 21.802 ug/l  
RT: 11.46 min Scan# 3225  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

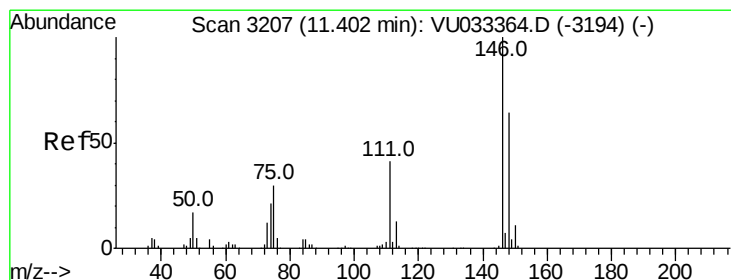
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 707593 |       |       |
| 134     | 26.4  |        | 21.0  | 31.4  |
| 91      | 24.5  |        | 19.8  | 29.6  |

Manual Integrations  
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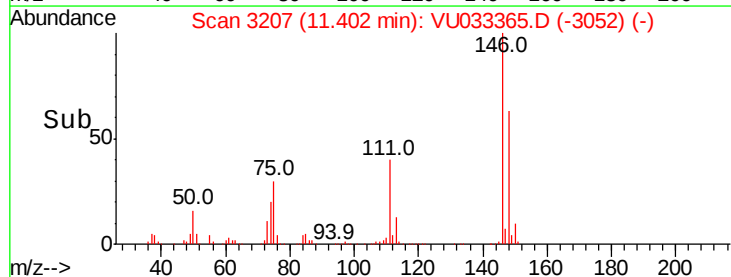
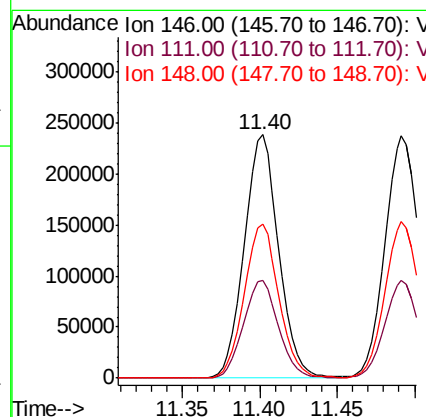
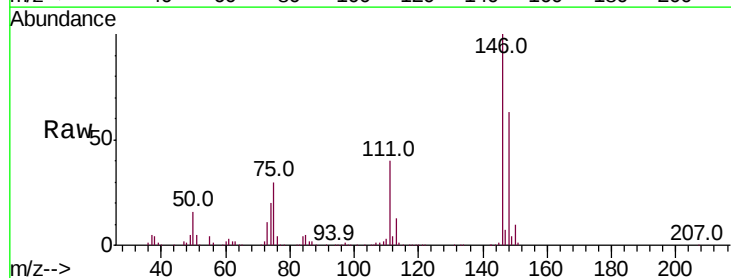
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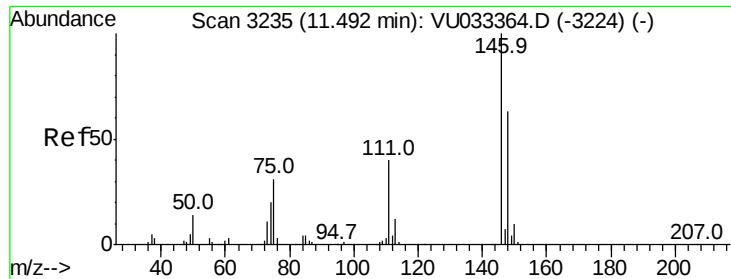
7/23/2019 8:55:14 AM



#82  
1,3-Dichlorobenzene  
Concen: 19.411 ug/l  
RT: 11.40 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 368981 |       |       |
| 111     | 40.8  |        | 33.3  | 49.9  |
| 148     | 63.6  |        | 50.8  | 76.2  |



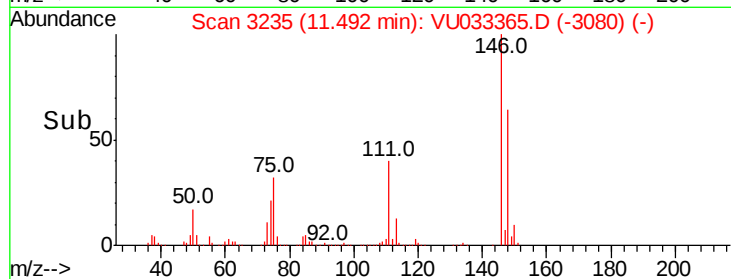
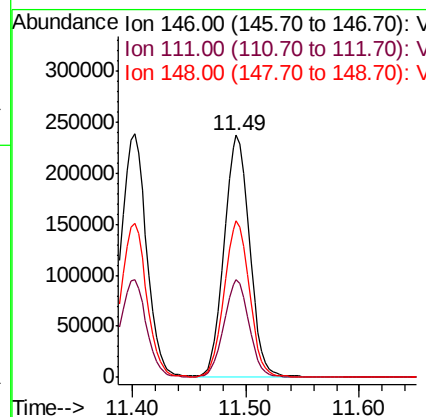
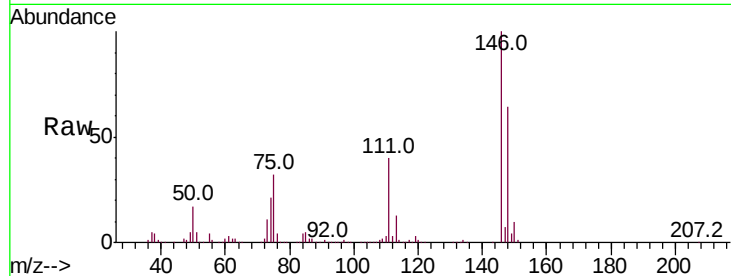


#83  
1,4-Dichlorobenzene  
Concen: 20.314 ug/l  
RT: 11.49 min Scan# 3235  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

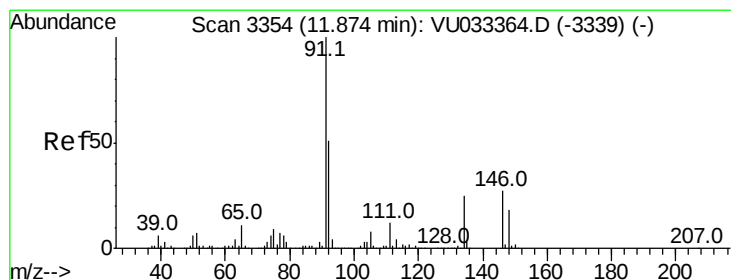
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 32.2  | 48.4  |
| 148     | 64.1  | 51.0  | 76.4  |

Manual Integrations  
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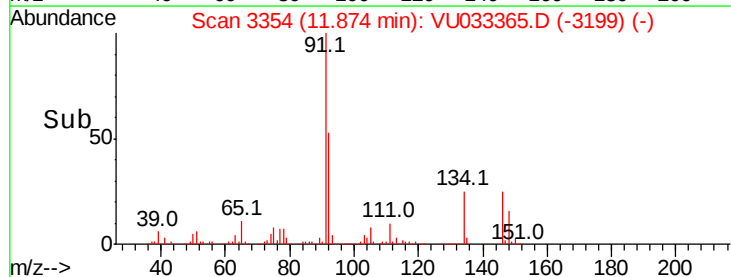
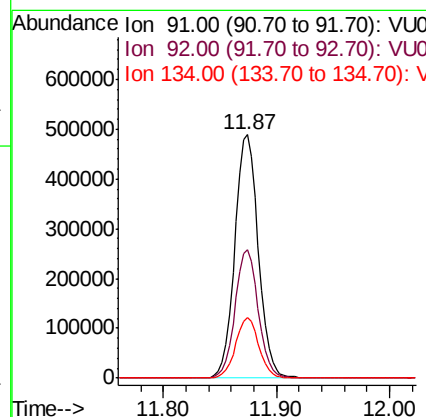
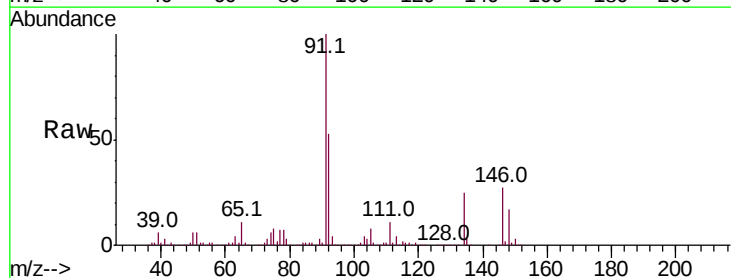
MMDadoda

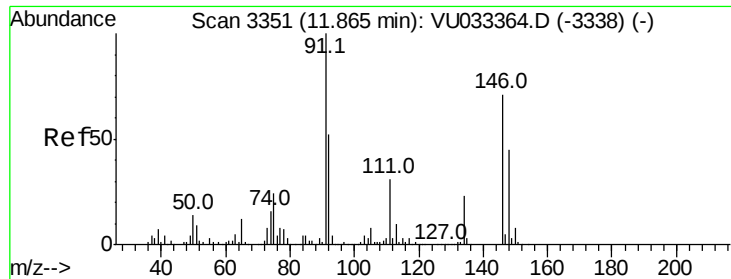
7/23/2019 8:55:14 AM



#84  
n-Butylbenzene  
Concen: 22.455 ug/l  
RT: 11.87 min Scan# 3354  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.1  | 41.0  | 61.6  |
| 134     | 24.7  | 19.5  | 29.3  |



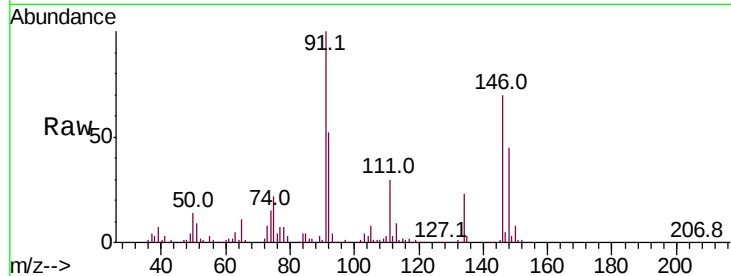


#85  
 1,2-Dichlorobenzene  
 Concen: 19.121 ug/l  
 RT: 11.86 min Scan# 3351  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDIC015

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.9  | 21.7  | 65.1  |
| 148     | 63.9  | 32.0  | 96.0  |

Manual Integrations  
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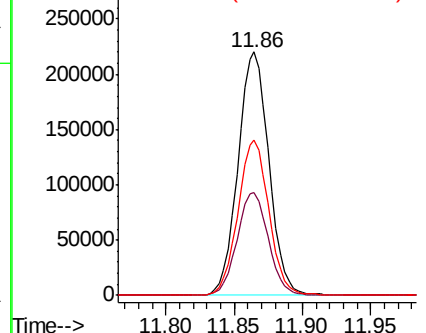


Abundance

Ion 146.00 (145.70 to 146.70): V

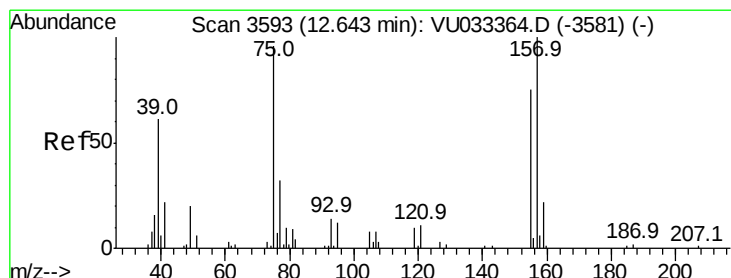
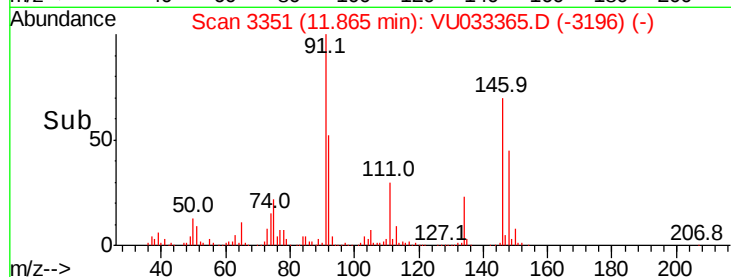
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



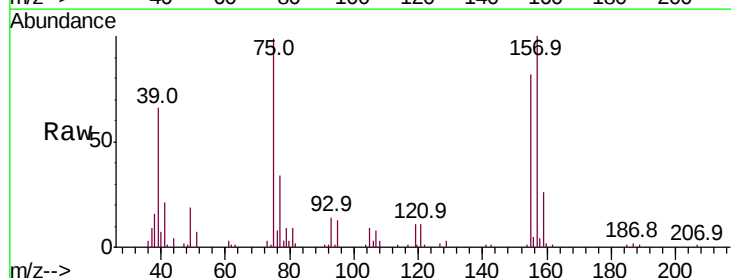
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7/23/2019 8:55:14 AM



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.100 ug/l  
 RT: 12.64 min Scan# 3593  
 Delta R.T. -0.00 min  
 Lab File: VU033365.D  
 Acq: 22 Jul 2019 21:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 80.6  | 63.3  | 94.9  |
| 157     | 99.8  | 82.5  | 123.7 |

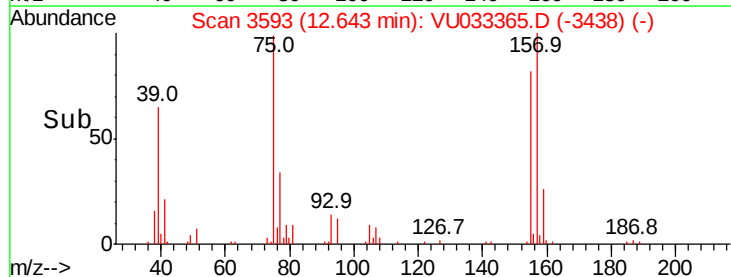
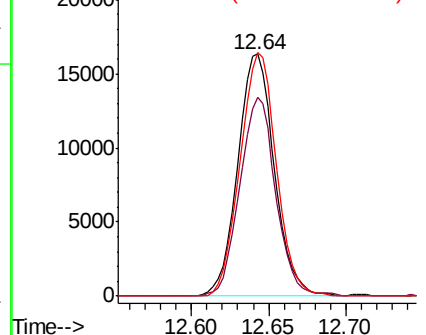


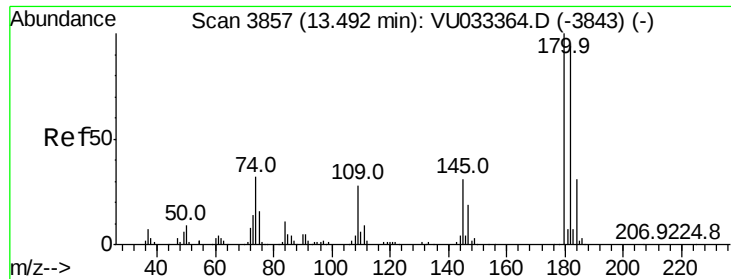
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#87

1,2,4-Trichlorobenzene

Concen: 25.142 ug/l

RT: 13.49 min Scan# 3857

Delta R.T. -0.00 min

Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

Instrument :

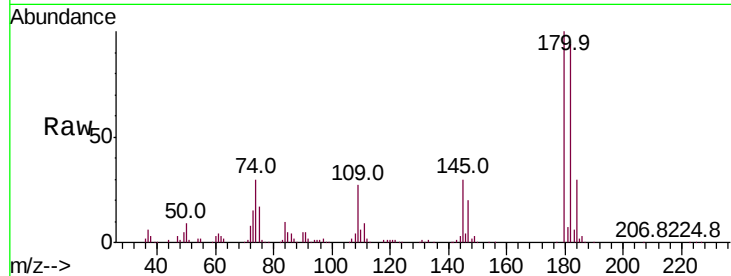
MSVOA\_U

ClientSampleId :

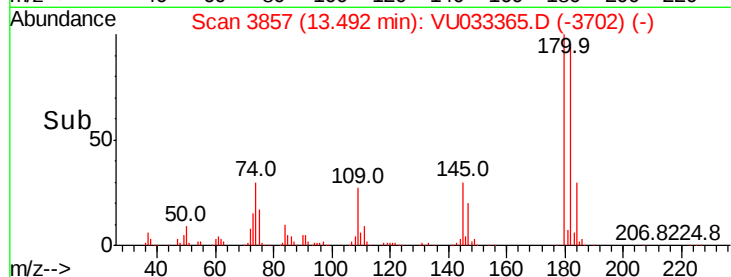
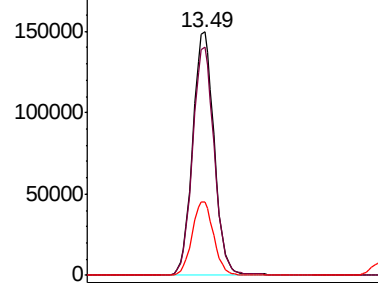
VSTDIC015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 180   | Resp: | 236199 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.5  | 76.2  | 114.4  |
| 145       | 30.4  | 25.0  | 37.4   |

Manual Integrations  
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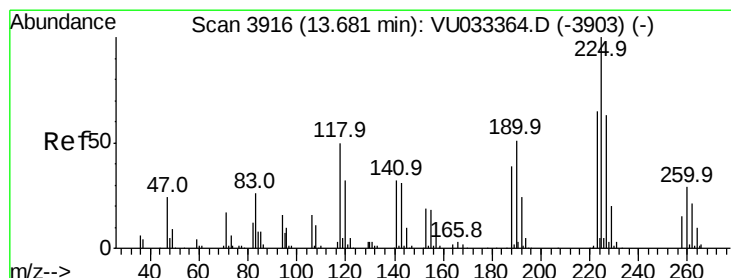
Abundance Ion 179.70 (179.40 to 180.40): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.80 (144.50 to 145.50): V



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7/23/2019 8:55:14 AM

Time-->



#88

Hexachlorobutadiene

Concen: 18.929 ug/l

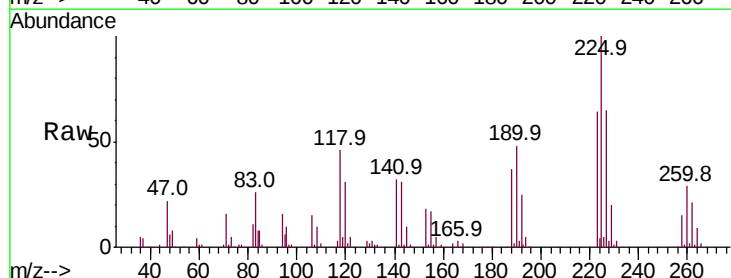
RT: 13.68 min Scan# 3916

Delta R.T. -0.00 min

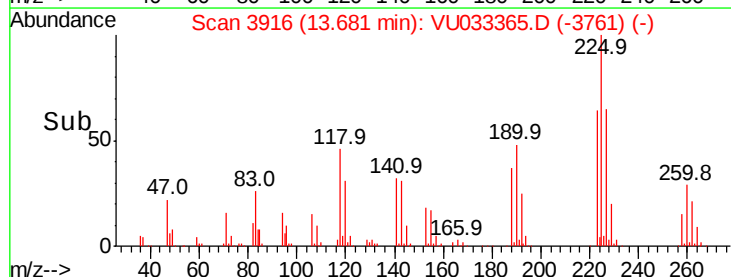
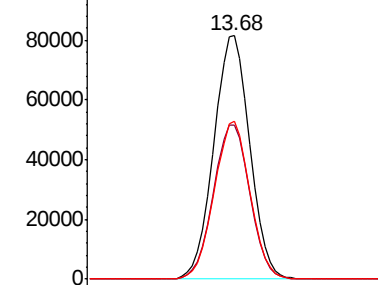
Lab File: VU033365.D

Acq: 22 Jul 2019 21:26

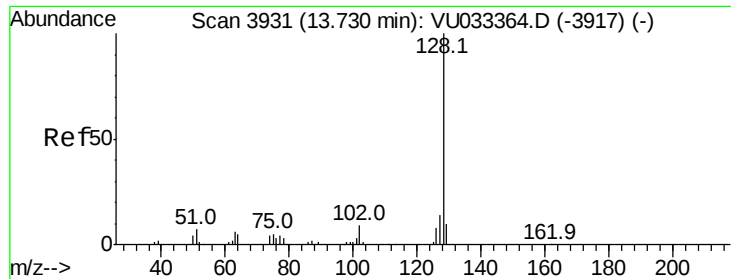
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 124929 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.2  | 52.2  | 78.4   |
| 227       | 64.2  | 51.7  | 77.5   |



Abundance Ion 224.60 (224.30 to 225.30): V  
Ion 222.60 (222.30 to 223.30): V  
Ion 226.60 (226.30 to 227.30): V



Time-->

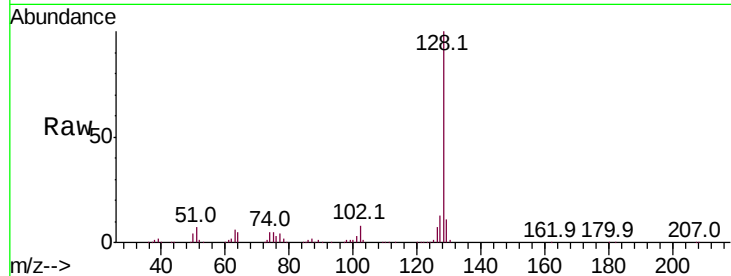


#89  
Naphthalene  
Concen: 28.225 ug/l  
RT: 13.73 min Scan# 3931  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

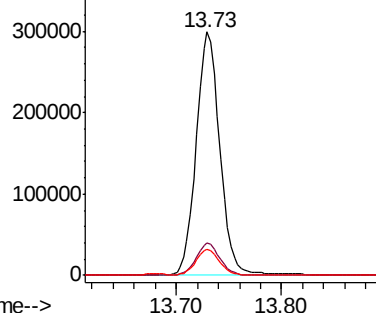
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 465090 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.3  | 10.8  | 16.2   |
| 129       | 10.6  | 8.5   | 12.7   |

Manual Integrations  
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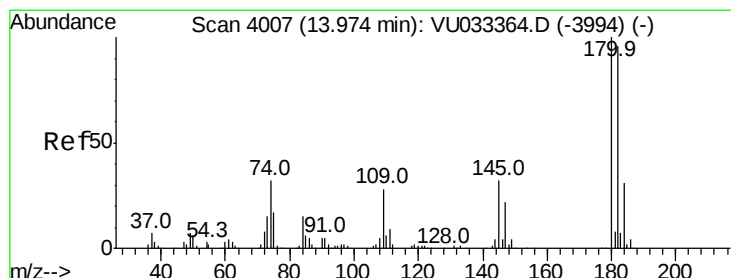
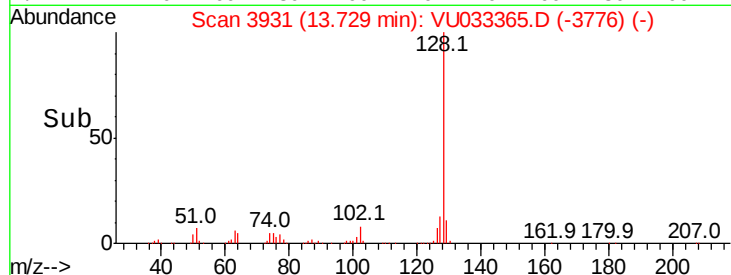


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



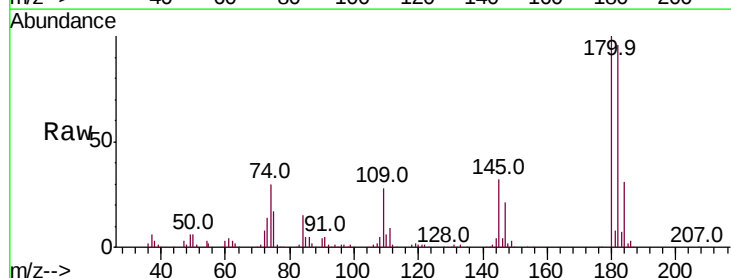
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7/23/2019 8:55:14 AM



#90  
1,2,3-Trichlorobenzene  
Concen: 23.471 ug/l  
RT: 13.97 min Scan# 4007  
Delta R.T. -0.00 min  
Lab File: VU033365.D  
Acq: 22 Jul 2019 21:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 224332 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.0  | 77.9  | 116.9  |
| 145       | 32.1  | 25.8  | 38.8   |



Abundance Ion 179.70 (179.40 to 180.40): V  
Ion 181.70 (181.40 to 182.40): V  
Ion 144.80 (144.50 to 145.50): V

